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RF Microwave

Waveguide Components

- | | |
|----------------------|---------------------|
| Adapter | Load |
| Attenuator | OMT |
| Bend/Straight/Twist | Rotary Joint |
| Circulator/Isolator | Short Plates/Spacer |
| Coupler | Flange/Gasket |
| Detector | Switch |
| Filter | Tee(ET/HT/MT) |
| VNA Calibration Kits | Flexible Waveguide |





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Waveguide Components Product Overview

1. Category: Frequency

Waveguide Type	Frequency(GHz)	Type	Notes
WG to Coaxial Adapter - Rectangular	0.32 to 110	Right Angle / Endlaunch, WR2300 to WR10	
WG to Coaxial Adapter - Double Ridge	0.84 to 40	Right Angle / Endlaunch, High Power, WRD84 to WRD180	
WG Ortho-Mode Transducer (OMT)	2.2 to 220	Standard WG Band, Frequency Extended	Square WG Common Port, Circular WG Common Port
WG Tee	1.12 to 110	ET, HT, Magic Tee	
WG Rotary Joint	2.6 to 40	I Type, U Type, L Type	
WG Transition	2.2 to 500	Rectangular to Rectangular , Circular WG to Rectangular Waveguide, Double Ridge to Rectangular Waveguide, Double Ridge to Double Ridge Waveguide	
WG Load	0.75 to 260	Rectangular WG, Double Ridge WG, Sliding Load	
WG Switch	2.6 to 110	Rectangular WG (E-Plane /H-Plane), Double Ridge WG (E-Plane /H-Plane)	SPDT/DPDT
WG Coupler- Cross	0.75 to 40		WG Coupler- Cross
WG Coupler- High Directional	1.7 to 110	Directional, Dual Directional	WG Coupler- High Directional
WG Coupler- Loop	1.7 to 40	Directional, Dual Directional	WG Coupler- Loop
Double Ridge WG Coupler- High Directional	2 to 40	Directional, Dual Directional	Double Ridge WG Coupler- High Directional
Rectangular Straight Waveguide	0.75 to 325	Rectangular, Double Ridge	Customized
Bend Waveguide	0.75 to 325	Rectangular WG (E-Plane /H-Plane, Radius/Miter), Double Ridge WG (E-Plane /H-Plane , Radius)	
Rectangular Twist WG	1.7 to 110	Rectangular, Double Ridge	
WG Short Plates	0.75 to 110	Rectangular WG, Double Ridge WG, Offset Short (1/8, 1/4, 3/8 Wavelength)	



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Waveguide Type	Frequency(GHz)	Type	Notes
WG Sliding Short Plates	1.12 to 110		
WG Spacer	0.32 to 140	Rectangular WG, Double Ridge WG, 1/4 Wavelength	Customized
WG VNA Calibration Kits	0.75 to 110	CLKA1, CLKA2, CLKA5, CLKB1 Four Series	TRL, SSLT, TRM, SSL, Bias Load Calibration, Sliding Load Calibration
WG Flange	0.32 to 110	WG Flange, Double Ridge WG Flange	
WG Gasket	1.12 to 40	Rectangular/ Circular	
WG Detector	2.6 to 110	Positive, Negative	
WG Fixed Attenuator	1.12 to 110	General Purpose, Precision, WR650 to WR10	
WG Variable Attenuator	2.6 to 110	WR284 to WR10	
WG Circulator	2.2 to 40	Rectangular, WR340 to WR28	
WG Isolator	2.2 to 40	Rectangular, WR340 to WR28	
WG Filter	2.6 to 110	Band Pass, Low Pass, High Pass	Customized



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2. Category: Application

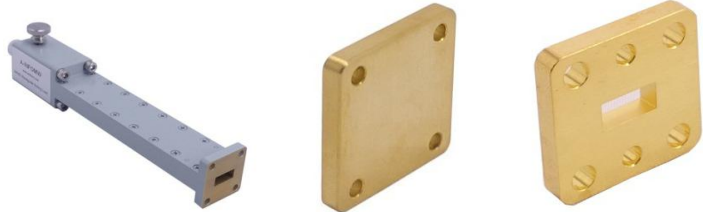
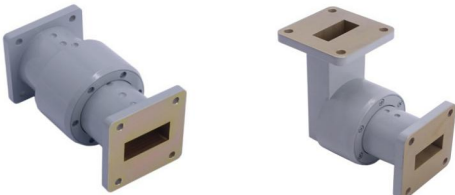
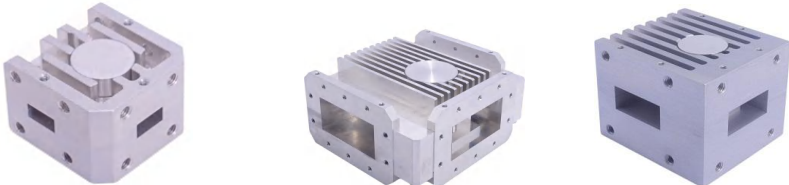
Applications	WG Type	Photo
Microwave Sampling Test	WG Coupler	
	WG to Coaxial Adapter	
	WG Load	
	WG Isolator WG Circulator	
	WG Fixed Attenuator WG Variable Attenuator WG High Power Attenuator	
	WG Transition	
	WG Tee	
Vector Network Analyzer	WG VNA Calibration Kits	



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Applications Vector Network Analyzer	WG Type WG Sliding Load WG Sliding Short WG Spacer WG Short WG Offset Short WG Precision Load	Photo 
EMC Power Amplifier	High Power WG Load High Power WG to Coaxial Adapter	
	WG Switch	
Radar systems	WG Rotary Joint	
	WG Switch	
	WG Ortho-Mode Transducer (OMT)	
	WG Filter	
	WG Circulator	



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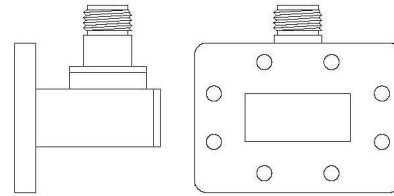
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WG to Coaxial Adapter

WG to Coaxial Adapter

1. WG to Coaxial Adapter - Right Angle



P/N	Freq. (GHz)	VSWR Max.	Con.	I.L.(dB) Max.	EIA WR	Flange	Mat.
2300WCAN	0.32-0.49	1.25	N-F	0.12	WR2300	FDP3	Al
2300WCANM	0.32-0.49	1.25	N-M	0.12	WR2300	FDP3	Al
2300WCAS	0.32-0.49	1.25	SMA-F	0.12	WR2300	FDP3	Al
2300WCASM	0.32-0.49	1.25	SMA-M	0.12	WR2300	FDP3	Al
2300WCA7/16	0.32-0.49	1.25	7/16-F	0.12	WR2300	FDP3	Al
2300WCA7/16M	0.32-0.49	1.25	7/16-M	0.12	WR2300	FDP3	Al
2100WCAN	0.35-0.53	1.25	N-F	0.12	WR2100	FDP4	Al
2100WCANM	0.35-0.53	1.25	N-M	0.12	WR2100	FDP4	Al
2100WCAS	0.35-0.53	1.25	SMA-F	0.12	WR2100	FDP4	Al
2100WCASM	0.35-0.53	1.25	SMA-M	0.12	WR2100	FDP4	Al
2100WCA7/16	0.35-0.53	1.25	7/16-F	0.12	WR2100	FDP4	Al
2100WCA7/16M	0.35-0.53	1.25	7/16-M	0.12	WR2100	FDP4	Al
1800WCAN	0.41-0.62	1.25	N-F	0.12	WR1800	FDP5	Al
1800WCANM	0.41-0.62	1.25	N-M	0.12	WR1800	FDP5	Al
1800WCAS	0.41-0.62	1.25	SMA-F	0.12	WR1800	FDP5	Al
1800WCASM	0.41-0.62	1.25	SMA-M	0.12	WR1800	FDP5	Al
1800WCA7/16	0.41-0.62	1.25	7/16-F	0.12	WR1800	FDP5	Al
1800WCA7/16M	0.41-0.62	1.25	7/16-M	0.12	WR1800	FDP5	Al
1500WCAN	0.49-0.75	1.25	N-F	0.12	WR1500	FDP6	Al
1500WCANM	0.49-0.75	1.25	N-M	0.12	WR1500	FDP6	Al
1500WCAS	0.49-0.75	1.25	SMA-F	0.12	WR1500	FDP6	Al
1500WCASM	0.49-0.75	1.25	SMA-M	0.12	WR1500	FDP6	Al
1500WCA7/16	0.49-0.75	1.25	7/16-F	0.12	WR1500	FDP6	Al
1500WCA7/16M	0.49-0.75	1.25	7/16-M	0.12	WR1500	FDP6	Al
1150WCAN	0.64-0.96	1.25	N-F	0.12	WR1150	FDP8	Al
1150WCANM	0.64-0.96	1.25	N-M	0.12	WR1150	FDP8	Al



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WG to Coaxial Adapter

P/N	Freq. (GHz)	VSWR Max.	Con.	I.L.(dB) Max.	EIA WR	Flange	Mat.
1150WCAS	0.64-0.96	1.25	SMA-F	0.12	WR1150	FDP8	Al
1150WCASM	0.64-0.96	1.25	SMA-M	0.12	WR1150	FDP8	Al
1150WCA7/16	0.64-0.96	1.25	7/16-F	0.12	WR1150	FDP8	Al
1150WCA7/16M	0.64-0.96	1.25	7/16-M	0.12	WR1150	FDP8	Al
975WCAN	0.75-1.12	1.25	N-F	0.09	WR975	FDP9	Al
975WCANM	0.75-1.12	1.25	N-M	0.09	WR975	FDP9	Al
975WCAS	0.75-1.12	1.25	SMA-F	0.12	WR975	FDP9	Al
975WCASM	0.75-1.12	1.25	SMA-M	0.12	WR975	FDP9	Al
975WCA7/16	0.75-1.12	1.25	7/16-F	0.12	WR975	FDP9	Al
975WCA7/16M	0.75-1.12	1.25	7/16-M	0.12	WR975	FDP9	Al
770WCAN	0.96-1.45	1.25	N-F	0.12	WR770	FDP12	Al
770WCANM	0.96-1.45	1.25	N-M	0.12	WR770	FDP12	Al
770WCAS	0.96-1.45	1.25	SMA-F	0.12	WR770	FDP12	Al
770WCASM	0.96-1.45	1.25	SMA-M	0.12	WR770	FDP12	Al
770WCA7/16	0.96-1.45	1.25	7/16-F	0.12	WR770	FDP12	Al
770WCA7/16M	0.96-1.45	1.25	7/16-M	0.12	WR770	FDP12	Al
650WCAN	1.12-1.70	1.25	N-F	0.10	WR650	FDP14/FDM14	Al
650WCANM	1.12-1.70	1.25	N-M	0.10	WR650	FDP14/FDM14	Al
650WCAS	1.12-1.70	1.25	SMA-F	0.12	WR650	FDP14/FDM14	Al
650WCASM	1.12-1.70	1.25	SMA-M	0.12	WR650	FDP14/FDM14	Al
650WCA7/16	1.12-1.70	1.25	7/16-F	0.12	WR650	FDP14/FDM14	Al
650WCA7/16M	1.12-1.70	1.25	7/16-M	0.12	WR650	FDP14/FDM14	Al
510WCAN	1.45-2.20	1.25	N-F	0.12	WR510	FDP18/FDM18	Al
510WCANM	1.45-2.20	1.25	N-M	0.12	WR510	FDP18/FDM18	Al
510WCAS	1.45-2.20	1.25	SMA-F	0.12	WR510	FDP18/FDM18	Al
510WCASM	1.45-2.20	1.25	SMA-M	0.12	WR510	FDP18/FDM18	Al
510WCA7/16	1.45-2.20	1.25	7/16-F	0.12	WR510	FDP18/FDM18	Al
510WCA7/16M	1.45-2.20	1.25	7/16-M	0.12	WR510	FDP18/FDM18	Al
430WCAN	1.70-2.60	1.25	N-F	0.12	WR430	FDP22/FDM22/APF430	Al
430WCANM	1.70-2.60	1.25	N-M	0.12	WR430	FDP22/FDM22/APF430	Al
430WCAS	1.70-2.60	1.25	SMA-F	0.13	WR430	FDP22/FDM22/APF430	Al
430WCASM	1.70-2.60	1.25	SMA-M	0.13	WR430	FDP22/FDM22/APF430	Al
430WCA7/16	1.70-2.60	1.25	7/16-F	0.13	WR430	FDP22/FDM22/APF430	Al
430WCA7/16M	1.70-2.60	1.25	7/16-M	0.13	WR430	FDP22/FDM22/APF430	Al
340WCAN	2.20-3.30	1.25	N-F	0.12	WR340	FDP26/FDM26/APF340	Al
340WCANM	2.20-3.30	1.25	N-M	0.12	WR340	FDP26/FDM26/APF340	Al
340WCAS	2.20-3.30	1.25	SMA-F	0.14	WR340	FDP26/FDM26/APF340	Al
340WCASM	2.20-3.30	1.25	SMA-M	0.14	WR340	FDP26/FDM26/APF340	Al



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WG to Coaxial Adapter

P/N	Freq. (GHz)	VSWR Max.	Con.	I.L.(dB) Max.	EIA WR	Flange	Mat.
340WCA7/16	2.20-3.30	1.25	7/16-F	0.14	WR340	FDP26/FDM26/APF340	Al
340WCA7/16M	2.20-3.30	1.25	7/16-M	0.14	WR340	FDP26/FDM26/APF340	Al
284WCANM	2.60-3.95	1.25	N-M	0.13	WR284	FDP32/FAP32/FAE32 /FDM32/APF284/ APF284B	Al
284WCAS	2.60-3.95	1.25	SMA-F	0.15	WR284	FDP32/FAP32/FAE32 /FDM32/APF284 /APF284B	Al
284WCASM	2.60-3.95	1.25	SMA-M	0.15	WR284	FDP32/FAP32/FAE32 /FDM32/APF284/ APF284B	Al
284WCA7/16	2.60-3.95	1.25	7/16-F	0.15	WR284	FDP32/FAP32/FAE32 /FDM32/APF284/ APF284B	Al
284WCA7/16M	2.60-3.95	1.25	7/16-M	0.15	WR284	FDP32/FAP32/FAE32 /FDM32/APF284 /APF284B	Al
229WCAN	3.30-4.90	1.25	N-F	0.14	WR229	FDP40/FAP40/FAE40 /FDM40/APF229	Al
229WCANM	3.30-4.90	1.25	N-M	0.14	WR229	FDP40/FAP40/FAE40 /FDM40	Al
229WCANM_P0	3.30-4.90	1.25	N-M	0.16	WR229	APF229	Al
229WCAS	3.30-4.90	1.25	SMA-F	0.16	WR229	FDP40/FAP40/ FAE40/FDM40/APF229	Al
229WCASM	3.30-4.90	1.25	SMA-M	0.16	WR229	FDP40/FAP40/ FAE40/FDM40/APF229	Al
229WCAT	3.30-4.90	1.25	TNC-F	0.14	WR229	FDP40/FAP40/ FAE40/FDM40/APF229	Al
229WCATM	3.30-4.90	1.25	TNC-M	0.14	WR229	FDP40/FAP40/ FAE40/FDM40/APF229	Al
229WCA7	3.30-4.90	1.25	7mm-F	0.16	WR229	FDP40/FAP40/ FAE40/FDM40/APF229	Al
229WCA3.5	3.30-4.90	1.25	3.5mm-F	0.16	WR229	FDP40/FAP40/ FAE40/FDM40/APF229	Al
229WCA3.5M	3.30-4.90	1.25	3.5mm-M	0.16	WR229	FDP40/FAP40/ FAE40/FDM40/APF229	Al
229WCAK	3.30-4.90	1.25	2.92mm-F	0.16	WR229	FDP40/FAP40/ FAE40/FDM40/APF229	Al
229WCAKM	3.30-4.90	1.25	2.92mm-M	0.16	WR229	FDP40/FAP40/ FAE40/FDM40/APF229	Al
229WCA2.4	3.30-4.90	1.25	2.4mm-F	0.16	WR229	FDP40/FAP40/ FAE40/FDM40/APF229	Al
229WCA2.4M	3.30-4.90	1.25	2.4mm-M	0.16	WR229	FDP40/FAP40/ FAE40/FDM40/APF229	Al
187WCAN	3.95-5.85	1.25	N-F	0.15	WR187	FDP48/FAP48/ FAE48/FDM48/APF187	Al
187WCANM	3.95-5.85	1.25	N-M	0.15	WR187	FDP48/FAP48/ FAE48/FDM48/APF187	Al
187WCAS	3.95-5.85	1.25	SMA-F	0.17	WR187	FDP48/FAP48/ FAE48/FDM48/APF187	Al
187WCASM	3.95-5.85	1.25	SMA-M	0.17	WR187	FDP48/FAP48/ FAE48/FDM48/APF187	Al
187WCAT	3.95-5.85	1.25	TNC-F	0.16	WR187	FDP48/FAP48/ FAE48/FDM48/APF187	Al
187WCATM	3.95-5.85	1.25	TNC-M	0.16	WR187	FDP48/FAP48/ FAE48/FDM48/APF187	Al
187WCA7	3.95-5.85	1.25	7mm-F	0.17	WR187	FDP48/FAP48/ FAE48/FDM48/APF187	Al
187WCA3.5	3.95-5.85	1.25	3.5mm-F	0.17	WR187	FDP48/FAP48/ FAE48/FDM48/APF187	Al



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WG to Coaxial Adapter

P/N	Freq. (GHz)	VSWR Max.	Con.	I.L.(dB) Max.	EIA WR	Flange	Mat.
187WCA3.5M	3.95-5.85	1.25	3.5mm-M	0.17	WR187	FDP48/FAP48/FAE48/FDM48/APF187	Al
187WCAK	3.95-5.85	1.25	2.92mm-F	0.17	WR187	FDP48/FAP48/FAE48/FDM48/APF187	Al
187WCAKM	3.95-5.85	1.25	2.92mm-M	0.17	WR187	FDP48/FAP48/FAE48/FDM48/APF187	Al
187WCA2.4	3.95-5.85	1.25	2.4mm-F	0.17	WR187	FDP48/FAP48/FAE48/FDM48/APF187	Al
187WCA2.4M	3.95-5.85	1.25	2.4mm-M	0.17	WR187	FDP48/FAP48/FAE48/FDM48/APF187	Al
159WCAN	4.90-7.05	1.25	N-F	0.16	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCANM	4.90-7.05	1.25	N-M	0.16	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCAS	4.90-7.05	1.25	SMA-F	0.18	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCASM	4.90-7.05	1.25	SMA-M	0.18	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCAT	4.90-7.05	1.25	TNC-F	0.16	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCATM	4.90-7.05	1.25	TNC-M	0.16	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCA7	4.90-7.05	1.25	7mm-F	0.18	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCA3.5	4.90-7.05	1.25	3.5mm-F	0.18	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCA3.5M	4.90-7.05	1.25	3.5mm-M	0.18	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCAK	4.90-7.05	1.25	2.92mm-F	0.18	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCAKM	4.90-7.05	1.25	2.92mm-M	0.18	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCA2.4	4.90-7.05	1.25	2.4mm-F	0.18	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
159WCA2.4M	4.90-7.05	1.25	2.4mm-M	0.18	WR159	FDP58/FAP58/FAE58/FDM58/APF159	Al
137WCAN	5.85-8.20	1.25	N-F	0.17	WR137	FDP70/FAP70/FAE70/FDM70/APF137/FEP70	Al
137WCANM	5.85-8.20	1.25	N-M	0.17	WR137	FDP70/FAP70/FAE70/FDM70/APF137	Al
137WCAS	5.85-8.20	1.25	SMA-F	0.20	WR137	FDP70/FAP70/FAE70/FDM70/APF137/FEP70	Al
137WCASM	5.85-8.20	1.25	SMA-M	0.20	WR137	FDP70/FAP70/FAE70/FDM70/APF137	Al
137WCAT	5.85-8.20	1.25	TNC-F	0.17	WR137	FDP70/FAP70/FAE70/FDM70/APF137	Al
137WCATM	5.85-8.20	1.25	TNC-M	0.17	WR137	FDP70/FAP70/FAE70/FDM70/APF137	Al
137WCA7	5.85-8.20	1.25	7mm-F	0.20	WR137	FDP70/FAP70/FAE70/FDM70/APF137	Al
137WCA3.5	5.85-8.20	1.25	3.5mm-F	0.20	WR137	FDP70/FAP70/FAE70/FDM70/APF137	Al
137WCA3.5M	5.85-8.20	1.25	3.5mm-M	0.20	WR137	FDP70/FAP70/FAE70/FDM70/APF137	Al
137WCAK	5.85-8.20	1.25	2.92mm-F	0.20	WR137	FDP70/FAP70/FAE70/FDM70/APF137	Al
137WCAKM	5.85-8.20	1.25	2.92mm-M	0.20	WR137	FDP70/FAP70/FAE70/FDM70/APF137	Al
137WCA2.4	5.85-8.20	1.25	2.4mm-F	0.20	WR137	FDP70/FAP70/FAE70/FDM70/APF137	Al
137WCA2.4M	5.85-8.20	1.25	2.4mm-M	0.20	WR137	FDP70/FAP70/FAE70/FDM70/APF137	Al



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P/N	Freq. (GHz)	VSWR Max.	Con.	I.L.(dB) Max.	EIA WR	Flange	Mat.
112WCAN	7.05-10.0	1.25	N-F	0.18	WR112	FBP84/FBM84/FBE84/FDP84/ FDM84/FEP84/APF112B	AI
112WCANM	7.05-10.0	1.25	N-M	0.18	WR112	FBP84/FBM84/FBE84/FDP84/ FDM84/FEP84/APF112B	AI
112WCAS	7.05-10.0	1.25	SMA-F	0.21	WR112	FBP84/FBM84/FBE84/ /FDP84/FDM84/FEP84/ /APF112B	AI
112WCASM	7.05-10.0	1.25	SMA-M	0.21	WR112	FBP84/FBM84/FBE84/FDP84/ FDM84/FEP84/APF112B	AI
112WCAT	7.05-10.0	1.25	TNC-F	0.19	WR112	FBP84/FBM84/FBE84/ /FDP84/FDM84/FEP84/ APF112B	AI
112WCATM	7.05-10.0	1.25	TNC-M	0.19	WR112	FBP84/FBM84/FBE84/ /FDP84/FDM84/FEP84/ APF112B	AI
112WCA7	7.05-10.0	1.25	7mm-F	0.21	WR112	FBP84/FBM84/FBE84/ /FDP84/FDM84/FEP84/ APF112B	AI
112WCA3.5	7.05-10.0	1.25	3.5mm-F	0.21	WR112	FBP84/FBM84/FBE84/ /FDP84/FDM84/FEP84/ APF112B	AI
112WCA3.5M	7.05-10.0	1.25	3.5mm-M	0.21	WR112	FBP84/FBM84/FBE84/ /FDP84/FDM84/FEP84/ APF112B	AI
112WCAK	7.05-10.0	1.25	2.92mm-F	0.21	WR112	FBP84/FBM84/FBE84/ /FDP84/FDM84/FEP84/ APF112B	AI
112WCAKM	7.05-10.0	1.25	2.92mm-M	0.21	WR112	FBP84/FBM84/FBE84/ /FDP84/FDM84/FEP84/ APF112B	AI
112WCA2.4	7.05-10.0	1.25	2.4mm-F	0.21	WR112	FBP84/FBM84/FBE84/ /FDP84/FDM84/FEP84/ APF112B	AI
112WCA2.4M	7.05-10.0	1.25	2.4mm-M	0.21	WR112	FBP84/FBM84/FBE84/ /FDP84/FDM84/FEP84/ APF112B	AI
90WCAN	8.20-12.4	1.25	N-F	0.21	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF100B	AI
90WCANM	8.20-12.4	1.25	N-M	0.21	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	AI
90WCAS	8.20-12.4	1.25	SMA-F	0.23	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	AI
90WCASM	8.20-12.4	1.25	SMA-M	0.23	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	AI
90WCAT	8.20-12.4	1.25	TNC-F	0.20	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	AI
90WCATM	8.20-12.4	1.25	TNC-M	0.20	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	AI

WG to Coaxial Adapter

P/N	Freq. (GHz)	VSWR Max.	Con.	I.L.(dB) Max.	EIA WR	Flange	Mat.
90WCA7	8.20-12.4	1.25	7mm	0.23	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	Al
90WCA3.5	8.20-12.4	1.25	3.5mm-F	0.23	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	Al
90WCA3.5M	8.20-12.4	1.25	3.5mm-M	0.23	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	Al
90WCAK	8.20-12.4	1.25	2.92mm-F	0.23	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	Al
90WCAKM	8.20-12.4	1.25	2.92mm-M	0.23	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	Al
90WCA2.4	8.20-12.4	1.25	2.4mm-F	0.23	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	Al
90WCA2.4M	8.20-12.4	1.25	2.4mm-M	0.23	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	Al
75WCAN	10.0-15.0	1.25	N-F	0.23	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A/ APF75B	Al
75WCANM	10.0-15.0	1.25	N-M	0.23	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A/ APF75B	Al
75WCAS	10.0-15.0	1.25	SMA-F	0.25	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A/ APF75B	Al
75WCASM	10.0-15.0	1.25	SMA-M	0.25	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A/ APF75B	Al
75WCAT	10.0-15.0	1.25	TNC-F	0.22	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A/ APF75B	Al
75WCATM	10.0-15.0	1.25	TNC-M	0.22	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A/ APF75B	Al
75WCA7	10.0-15.0	1.30	7mm	0.25	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A/ APF75B	Al
75WCA3.5	10.0-15.0	1.30	3.5mm-F	0.25	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A/ APF75B	Al
75WCA3.5M	10.0-15.0	1.30	3.5mm-M	0.25	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A/ APF75B	Al



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P/N	Freq.(GHz)	VSWR Max.	Con.	I.L.(dB) Max.	EIA WR	Flange	Mat.
75WCAK	10.0-15.0	1.30	2.92mm-F	0.25	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A /APF75B	Al
75WCAKM	10.0-15.0	1.30	2.92mm-M	0.25	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A /APF75B	Al
75WCA2.4	10.0-15.0	1.30	2.4mm-F	0.25	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A /APF75B	Al
75WCA2.4M	10.0-15.0	1.30	2.4mm-M	0.25	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A /APF75B	Al
62WCAN	12.4-18.0	1.25	N-F	0.25	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WCANM	12.4-18.0	1.25	N-M	0.25	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WCAS	12.4-18.0	1.25	SMA-F	0.25	WR62	FBP140/FBM140/ FBE140/FDP140 /FDM140/APF62	Al
62WCASM	12.4-18.0	1.25	SMA-M	0.25	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WCAT	12.4-18.0	1.25	TNC-F	0.23	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WCATM	12.4-18.0	1.25	TNC-M	0.23	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WCA7	12.4-18.0	1.35	7mm-F	0.27	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WCA3.5	12.4-18.0	1.35	3.5mm-F	0.27	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WCA3.5M	12.4-18.0	1.35	3.5mm-M	0.27	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WCAK	12.4-18.0	1.35	2.92mm-F	0.27	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WCAKM	12.4-18.0	1.35	2.92mm-M	0.27	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WCA2.4	12.4-18.0	1.35	2.4mm-F	0.27	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WCA2.4M	12.4-18.0	1.35	2.4mm-M	0.27	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
51WCAS_Cu	15.0-22.0	1.25	SMA-F	0.29	WR51	FBP180/FBM180/ APF51A/APF51C	Cu
51WCASM_Cu	15.0-22.0	1.25	SMA-M	0.29	WR51	FBP180/FBM180/ APF51A/APF51C	Cu
51WCA3.5_Cu	15.0-22.0	1.25	3.5mm-F	0.29	WR51	FBP180/FBM180/ APF51A/APF51C	Cu
51WCA3.5M_Cu	15.0-22.0	1.25	3.5mm-M	0.29	WR51	FBP180/FBM180/ APF51A/APF51C	Cu



WG to Coaxial Adapter

P/N	Freq.(GHz)	VSWR Max.	Con.	I.L.(dB) Max.	EIA WR	Flange	Mat.
51WCAK_Cu	15.0-22.0	1.25	2.92mm-F	0.29	WR51	FBP180/FBM180/APF51A/APF51C	Cu
51WCAKM_Cu	15.0-22.0	1.25	2.92mm-M	0.29	WR51	FBP180/FBM180/APF51A/APF51C	Cu
51WCA2.4_Cu	15.0-22.0	1.25	2.4mm-F	0.29	WR51	FBP180/FBM180/APF51A/APF51C	Cu
51WCA2.4M_Cu	15.0-22.0	1.25	2.4mm-M	0.29	WR51	FBP180/FBM180/APF51A/APF51C	Cu
42WCAK_Cu	18.0-26.5	1.30	2.92mm-F	0.32	WR42	FBP220/FBM220/APF42	Cu
42WCAKM_Cu	18.0-26.5	1.30	2.92mm-M	0.32	WR42	FBP220/FBM220/APF42	Cu
42WCAS_Cu	18.0-26.5	1.30	SMA-F	0.32	WR42	FBP220/FBM220/APF42	Cu
42WCASM_Cu	18.0-26.5	1.30	SMA-M	0.32	WR42	FBP220/FBM220/APF42	Cu
42WCA3.5_Cu	18.0-26.5	1.25	3.5mm-F	0.32	WR42	FBP220/FBM220/APF42	Cu
42WCA3.5M_Cu	18.0-26.5	1.25	3.5mm-M	0.32	WR42	FBP220/FBM220/APF42	Cu
42WCA2.4_Cu	18.0-26.5	1.25	2.4mm-F	0.32	WR42	FBP220/FBM220/APF42	Cu
42WCA2.4M_Cu	18.0-26.5	1.25	2.4mm-M	0.32	WR42	FBP220/FBM220/APF42	Cu
34WCA3.5_Cu	22.0-33.0	1.25	3.5mm-F	0.35	WR34	FBP260/FBM260/APF34	Cu
34WCA3.5M_Cu	22.0-33.0	1.25	3.5mm-M	0.35	WR34	FBP260/FBM260/APF34	Cu
34WCAK_Cu	22.0-33.0	1.25	2.92mm-F	0.35	WR34	FBP260/FBM260/APF34	Cu
34WCAKM_Cu	22.0-33.0	1.25	2.92mm-M	0.35	WR34	FBP260/FBM260/APF34	Cu
34WCA2.4_Cu	22.0-33.0	1.25	2.4mm-F	0.35	WR34	FBP260/FBM260/APF34	Cu
34WCA2.4M_Cu	22.0-33.0	1.25	2.4mm-M	0.35	WR34	FBP260/FBM260/APF34	Cu
28WCA3.5_Cu	26.5-33.0	1.30	3.5mm-F	0.39	WR28	FBP320/FBM320/APF28	Cu
28WCA3.5M_Cu	26.5-33.0	1.30	3.5mm-M	0.39	WR28	FBP320/FBM320/APF28	Cu
28WCAK_Cu	26.5-40.0	1.30	2.92mm-F	0.39	WR28	FBP320/FBM320/APF28	Cu
28WCAKM_Cu	26.5-40.0	1.30	2.92mm-M	0.39	WR28	FBP320/FBM320/APF28	Cu
28WCA2.4_Cu	26.5-40.0	1.30	2.4mm-F	0.39	WR28	FBP320/FBM320/APF28	Cu
28WCA2.4M_Cu	26.5-40.0	1.30	2.4mm-M	0.39	WR28	FBP320/FBM320/APF28	Cu
28WCA1.85_Cu	26.5-40.0	1.30	1.85mm-F	0.39	WR28	FBP320/FBM320/APF28	Cu
28WCA1.85M_Cu	26.5-40.0	1.30	1.85mm-M	0.39	WR28	FBP320/FBM320/APF28	Cu
22WCAK_Cu	33.0-50.0	1.50	2.92mm-F	0.41	WR22	FUGP400/APF22	Cu
22WCAKM_Cu	33.0-50.0	1.50	2.92mm-M	0.41	WR22	FUGP400/APF22	Cu
22WCA2.4_Cu	33.0-50.0	1.50	2.4mm-F	0.41	WR22	FUGP400/APF22	Cu
22WCA2.4M_Cu	33.0-50.0	1.50	2.4mm-M	0.41	WR22	FUGP400/APF22	Cu
22WCA1.85_Cu	33.0-50.0	1.50	1.85mm-F	0.41	WR22	FUGP400/APF22	Cu
22WCA1.85M_Cu	33.0-50.0	1.50	1.85mm-M	0.41	WR22	FUGP400/APF22	Cu
22WCA1.0_Cu	33.0-50.0	1.50	1.0mm-F	0.41	WR22	FUGP400/APF22	Cu
22WCA1.0M_Cu	33.0-50.0	1.50	1.0mm-M	0.41	WR22	FUGP400/APF22	Cu



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P/N	Freq. (GHz)	VSWR Max.	Con.	I.L.(dB) Max.	EIA WR	Flange	Mat.
19WCA2.4_Cu	40.0-50.0	1.50	2.4mm-F	0.80	WR19	FUGP500/APF19	Cu
19WCA2.4M_Cu	40.0-50.0	1.50	2.4mm-M	0.80	WR19	FUGP500/APF19	Cu
19WCA1.85_Cu	40.0-60.0	1.50	1.85mm-F	0.80	WR19	FUGP500/APF19	Cu
19WCA1.85M_Cu	40.0-60.0	1.50	1.85mm-M	0.80	WR19	FUGP500/APF19	Cu
19WCA1.0_Cu	40.0-60.0	1.50	1.0mm-F	0.80	WR19	FUGP500/APF19	Cu
19WCA1.0M_Cu	40.0-60.0	1.50	1.0mm-F	0.80	WR19	FUGP500/APF19	Cu
15WCA1.85_Cu	50.0-65.0	1.80	1.85mm-F	0.8	WR15	FUGP620/APF15	Cu
15WCA1.85M_Cu	50.0-65.0	1.80	1.85mm-M	0.8	WR15	FUGP620/APF15	Cu
15WCA1.85_Cu10	50.0-65.0	1.50	1.85mm-F	0.8	WR15	FUGP620	Cu
15WCA1.0_Cu	50.0-75.0	1.50	1.0mm-F	1.0	WR15	FUGP620/APF15	Cu
15WCA1.0M_Cu	50.0-65.0	1.50	1.0mm-M	1.0	WR15	FUGP620/APF15	Cu
12WCA1.0_Cu	60.0-90.0	1.60	1.0mm-F	1.20	WR12	FUGP740/APF12	Cu
12WCA1.0M_Cu	60.0-90.0	1.60	1.0mm-M	1.20	WR12	FUGP740/APF12	Cu
10WCA1.0_Cu	75.0-110.0	1.60	1.0mm-F	1.20	WR10	FUGP900/APF10	Cu
10WCA1.0M_Cu	75.0-110.0	1.60	1.0mm-M	1.20	WR10	FUGP900/APF10	Cu



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WG to Coaxial Adapter

2. WG to Coaxial Adapter - Endlaunch



P/N	Freq. (GHz)	VSWR Max.	Con.	EIA WR	Flange	Mat.
975WECAN	0.75-1.12	1.25	N-F	WR975	FDP9	Al
650WECAN	1.12-1.70	1.25	N-F	WR650	FDP14/FDM14	Al
430WECAN	1.70-2.60	1.25	N-F	WR430	FDP22/FDM22/APF430	Al
430WECAS	1.70-2.60	1.25	SMA-F	WR430	FDP22/FDM22/APF430	Al
340WECAN	2.20-3.30	1.25	N-F	WR340	FDP26/FDM26/APF340	Al
340WECAS	2.20-3.30	1.25	SMA-F	WR340	FDP26/FDM26/APF340	Al
284WECAN	2.60-3.95	1.25	N-F	WR284	FDP32/FAP32/FAE32 /FDM32/APF284/APF284B	Al
284WECAS	2.60-3.95	1.25	SMA-F	WR284	FDP32/FAP32/FAE32 /FDM32/APF284/APF284B	Al
229WECAN	3.30-4.90	1.25	N-F	WR229	FDP40/FAP40/FAE40 /FDM40/APF229	Al
229WECAS	3.30-4.90	1.25	SMA-F	WR229	FDP40/FAP40/FAE40 /FDM40/APF229	Al
187WECAN	3.95-5.85	1.25	N-F	WR187	FDP48/FAP48/FAE48 /FDM48/APF187	Al
187WECAS	3.95-5.85	1.25	SMA-F	WR187	FDP48/FAP48/FAE48 /FDM48/APF187	Al
159WECAN	4.90-7.05	1.25	N-F	WR159	FDP58/FAP58/FAE58 /FDM58/APF159	Al
159WECAS	4.90-7.05	1.25	SMA-F	WR159	FDP58/FAP58/FAE58 /FDM58/APF159	Al
137WECAN	5.85-8.20	1.25	N-F	WR137	FDP70/FAP70/FAE70 /FDM70/APF137	Al
137WECANM	5.85-8.20	1.25	N-M	WR137	FDP70/FAP70/FAE70 /FDM70/APF137	Al
137WECAS	5.85-8.20	1.25	SMA-F	WR137	FDP70/FAP70/FAE70 /FDM70/APF137	Al
112WECAN	7.05-10.0	1.25	N-F	WR112	FBP84/FBM84/FBE84 /FDP84/FDM84/FEP84/ APF112B	Al



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P/N	Freq. (GHz)	VSWR Max.	Con.	EIA WR	Flange	Mat.
112WECAS	7.05-10.0	1.25	SMA-F	WR112	FBP84/FBM84/FBE84/ /FDP84/FDM84/FEP84/ APF112B	Al
90WECAN	8.20-12.4	1.5	N-F	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/APF90B	Al
90WECANM	8.20-12.4	1.5	N-M	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/APF90B	Al
90WECAS	8.20-12.4	1.25	SMA-F	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/APF90B	Al
90WECASM	8.20-12.4	1.25	SMA-M	WR90	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/APF90B	Al
75WECAN	10.0-15.0	1.25	N-F	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A/APF75B	Al
75WECAS	10.0-15.0	1.25	SMA-F	WR75	FBP120/FBM120/ FBE120/FDP120/ FDM120/APF75A/APF75B	Al
62WECAN	12.4-18.0	1.25	N-F	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
62WECAS	12.4-18.0	1.25	SMA-F	WR62	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
51WECAS_Cu	15.0-22.0	1.25	SMA-F	WR51	FBP180/FBM180/ APF51A/APF51C	Cu
42WECAS_Cu	18.0-26.5	1.25	SMA-F	WR42	FBP220/FBM220/APF42	Cu
42WECASM_Cu	18.0-26.5	1.25	SMA-M	WR42	FBP220/FBM220/APF42	Cu
42WECAK_Cu	18.0-26.5	1.25	2.92mm -F	WR42	FBP220/FBM220/APF42	Cu
34WECAK_Cu	22.0-33.0	1.30	2.92mm -F	WR34	FBP260/FBM260/APF34	Cu
28WECAK_Cu	26.5-40.0	1.30	2.92mm-F	WR28	FBP320/FBM320/APF28	Cu
28WECKM_Cu	26.5-40.0	1.30	2.92mm-M	WR28	FBP320/FBM320/APF28	Cu
28WECA2.4_Cu	26.5-40.0	1.30	2.4mm-F	WR28	FBP320/FBM320/APF28	Cu
22WECA2.4_Cu	33.0-50.0	1.50	2.4mm-F	WR22	FUGP400/APF22	Cu
19WECA2.4_Cu	40.0-50.0	1.50	2.4mm-F	WR19	FUGP500/APF19	Cu
19WECA1.85_Cu	40.0-60.0	1.50	1.85mm-F	WR19	FUGP500/APF19	Cu
15WECA1.85_Cu	50.0-65.0	2	1.85mm-F	WR15	FUGP620/APF15	Cu
15WECA1.0_Cu	50.0-75.0	1.50	1.0mm-F	WR15	FUGP620/APF15	Cu
12WECA1.0_Cu	60.0-90.0	1.50	1.0mm-F	WR12	FUGP620/APF15	Cu
10WECA1.0_Cu	75.0-110.0	1.50	1.0mm-F	WR10	FUGP900/APF10	Cu



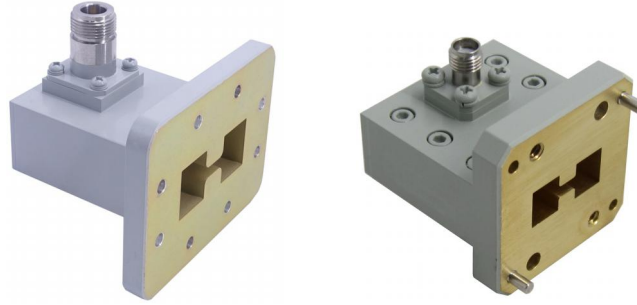
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3. WG to Coaxial Adapter - Double Ridge



EIA WRD	P/N	Freq. (GHz)	VSWR Max.	Con.	Flange	Mat.
WRD84	84DRWCAN	0.84-2.0	1.30	N-F	FPWRD84D24	Al
WRD200	200DRWCAN	2.0-4.8	1.30	N-F	FPWRD200D24	Al
WRD200	200DRWCAS	2.0-4.8	1.30	SMA-F	FPWRD200D24	Al
WRD250	250DRWCAN	2.6-7.8	1.30	N-F	FPWRD250D30	Al
WRD250	250DRWCAS	2.6-7.8	1.30	SMA-F	FPWRD250D30	Al
WRD350	350DRWCAN	3.5-8.2	1.30	N-F	FPWRD350D24	Al
WRD350	350DRWCAS	3.5-8.2	1.30	SMA-F	FPWRD350D24	Al
WRD475	475DRWCAN	4.75-11.0	1.40	N-F	FPWRD475D24	Al
WRD475	475DRWCAS	4.75-11.0	1.30	SMA-F	FPWRD475D24	Al
WRD580	580DRWCAN_Cu	5.8-16.0	1.30	N-F	FPWRD580D28	Cu
WRD580	580DRWCAS_Cu	5.8-16.0	1.30	SMA-F	FPWRD580D28	Cu
WRD650	650DRWCAN_Cu	6.5-18.0	1.30	N-F	FPWRD650D28	Cu
WRD650	650DRWCAS_Cu	6.5-18.0	1.30	SMA-F	FPWRD650D28	Cu
WRD750	750DRWCAN_Cu	7.5-18.0	1.30	N-F	FPWRD750D24	Cu
WRD750	750DRWCAS_Cu	7.5-18.0	1.30	SMA-F	FPWRD750D24	Cu
WRD110	110DRWCAS_Cu	11.0-26.5	1.40	SMA-F	FPWRD110C24	Cu
WRD180	180DRWCAK_Cu	18.0-40.0	1.50	2.92mm-F	FPWRD180C24	Cu
WRD180	180DRWCAKM_Cu	18.0-40.0	1.50	2.92mm-50J	FPWRD180C24	Cu



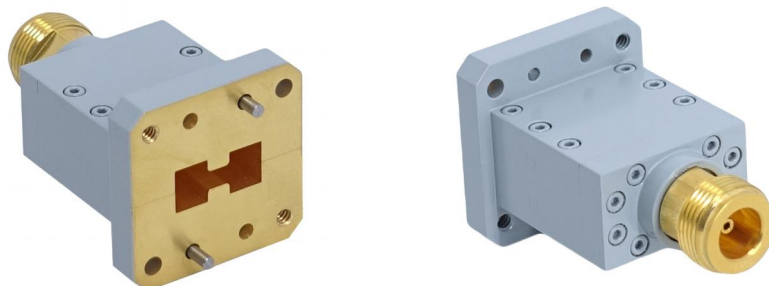
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4. WG to Coaxial Adapter - Double Ridge Endlaunch



EIA WRD	P/N	Freq. (GHz)	VSWR Max.	Con.	I.L.(dB) Max.	Flange	Mat.
WRD84	84DRWECAN	0.84-2.0	1.40	N-F	0.40	FPWRD84D24	Al
WRD200	200DRWECAN	2.0-4.8	1.40	N-F	0.40	FPWRD200D24	Al
WRD200	200DRWECAS	2.0-4.8	1.40	SMA-F	0.40	FPWRD200D24	Al
WRD250	250DRWECAN	2.6-7.8	1.40	N-F	0.40	FPWRD250D30	Al
WRD250	250DRWECAS	2.6-7.8	1.40	SMA-F	0.40	FPWRD250D30	Al
WRD350	350DRWECAN	3.5-8.2	1.40	N-F	0.40	FPWRD350D24	Al
WRD350	350DRWECAS	3.5-8.2	1.40	SMA-F	0.40	FPWRD350D24	Al
WRD475	475DRWECAN	4.75-11.0	1.40	N-F	0.40	FPWRD475D24	Al
WRD475	475DRWECAS	4.75-11.0	1.40	SMA-F	0.40	FPWRD475D24	Al
WRD580	580DRWECAN_Cu	5.8-16.0	1.40	N-F	0.40	FPWRD580D28	Cu
WRD580	580DRWECAS_Cu	5.8-16.0	1.40	SMA-F	0.40	FPWRD580D28	Cu
WRD650	650DRWECAN_Cu	6.5-18.0	1.50	N-F	0.50	FPWRD650D28	Cu
WRD650	650DRWECANM_Cu	6.5-18.0	1.50	N-M	0.50	FPWRD650D28	Cu
WRD650	650DRWECAS_Cu	6.5-18.0	1.40	SMA-F	0.50	FPWRD650D28	Cu
WRD750	750DRWECAN_Cu	7.5-18.0	1.50	N-F	0.50	FPWRD750D24	Cu
WRD750	750DRWECAS_Cu	7.5-18.0	1.40	SMA-F	0.50	FPWRD750D24	Cu
WRD110	110DRWECAS_Cu	11.0-26.5	1.50	SMA-F	0.60	FPWRD110C24	Cu
WRD180	180DRWECAS_Cu	18.0-40.0	1.50	2.92mm-F	0.75	FPWRD180C24	Cu



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WG to Coaxial Adapter

5. WG to Coaxial Adapter - Double Ridge High Power



EIA WRD	P/N	Freq. (GHz)	VSWR Max.	Con.	Flange	Ave. P. (W)	Mat.
WRD84	84DRWHCAN	0.84-2.0	1.30	N-F	FPWRD84D24	1000	Al
WRD200	200DRWHCAN	2.0-4.8	1.30	N-F	FPWRD200D24	1000	Al
WRD250	250DRWHCAN	2.6-7.8	1.30	N-F	FPWRD250D30	1000	Al
WRD350	350DRWHCAN	3.5-8.2	1.30	N-F	FPWRD350D24	750	Al
WRD350	350DRWHCAN_F13	3.5-8.2	1.30	N-F	FPWRD350D24	750	Al
WRD475	475DRWHCAN	4.75-11.0	1.30	N-F	FPWRD475D24	750	Al
WRD580	580DRWHCAN_Cu	5.8-16.0	1.30	N-F	FPWRD580D28	500	Cu
WRD650	650DRWHCAN_Cu	6.5-18.0	1.30	N-F	FPWRD650D28	500	Cu
WRD750	750DRWHCAN_Cu	7.5-18.0	1.35	N-F	FPWRD750D24	500	Cu



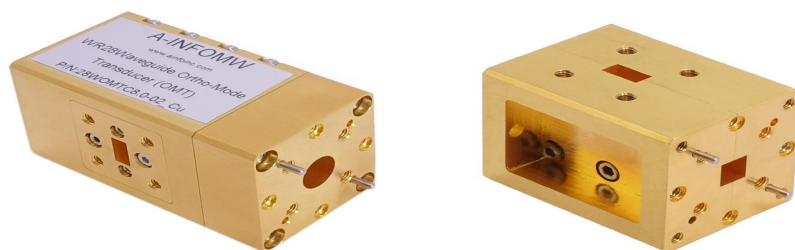
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WG Ortho-Mode Transducer (OMT)

WG Ortho-Mode Transducer (OMT)



WOMT series Ortho-Mode Transducers are covering full or sub waveguide band from WR340 to WR5 up to 220GHz. These Ortho-Mode Transducers (OMT) are used to separate the signal at the common port into two linear orthogonal components at the rectangular waveguide ports. The common port could be either square waveguide or circular waveguide. The isolation between two rectangular ports is higher than 30dB and has a 45dB typical value. These Ortho-Mode Transducers are ideally suited for radars, remote sensing, measurements communication systems and other applications.

Model Information

Example Part Number: 340 WOMT C25 -06

Waveguide Size: WR340 to WR5
EIA WR Size

Product Code

Common Port WG Size:
Sxx: Square WG, xx=size in mm
Cxx: Circular WG, xx=size in mm
WCxx: Circular WG, EIA WC Size

Frequency Code

EIA WR	Freq. (GHz)	P/N	Comm. Port WG Type	VSWR Typ.	Iso. (dB) Min.	Flange	Mat.
WR340	2.20-2.90	340WOMTS72.5-06	Square	1.5	50	FDP26	Al
WR340	2.20-2.70	340WOMTS72.5-06C	Square	1.5	50	FDP26	Al
WR284	2.60-3.95	284WOMTS72.14-02	Square	1.3	50	FDP32	Al
WR284	2.60-3.95	284WOMTWC329-02	Circular	1.3	50	FDP32	Al
WR284	2.60-3.40	284WOMTS62-06	Square	1.5	30	FDP32	Al
WR284	2.60-3.40	284WOMTWC329-06	Circular	1.5	30	FDP32	Al
WR284	2.70-2.90	284WOMTWC329-06_DPDPAM	Circular	1.5	30	FDP32	Al
WR284	2.70-2.90	284WOMTWC329-06C_DPDPAM	Circular	1.5	30	FDP32	Al
WR229	3.30-4.90	229WOMTS58.17-02	Square	1.3	50	FDP40	Al
WR229	3.30-4.90	229WOMTWC240-02	Circular	1.3	50	FDP40	Al
WR187	3.95-5.85	187WOMTS47.549-02	Square	1.3	50	FDP48	Al
WR187	3.95-5.85	187WOMTWC205-02	Circular	1.3	50	FDP48	Al
WR159	4.90-7.05	159WOMTS40.386-02	Square	1.3	40	FDP58	Al



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EIA WR	Freq.(GHz)	P/N	Comm. Port WG Type	VSWR Typ.	Iso. (dB) Min.	Flange	Mat.
WR159	4.90-7.05	159WOMTWC175-02	Circular	1.3	40	FDP58	Al
WR137	5.85-8.20	137WOMTS34.849-02	Square	1.3	40	FDP70	Al
WR137	5.85-8.20	137WOMTWC150-02	Circular	1.3	40	FDP70	Al
WR112	7.05-10.0	112WOMTS28.499-02	Square	1.3	40	FBP84	Al
WR112	7.05-10.0	112WOMTWC128-02	Circular	1.3	40	FBP84	Al
WR90	8.20-12.4	90WOMTS22.86-02	Square	1.3	45	FBP100	Al
WR90	8.20-12.4	90WOMTC25-02	Circular	1.3	45	FBP100	Al
WR90	8.2-10.8	90WOMTS19.3-06	Square	1.3	45	FBP100	Al
WR90	8.2-10.8	90WOMTC25-06	Circular	1.3	45	FBP100	Al
WR90	8.9-11.7	90WOMTS18-16	Square	1.3	45	FBP100	Al
WR90	8.9-11.7	90WOMTC25-16	Circular	1.3	45	FBP100	Al
WR90	9.3-12.4	90WOMTS17-26	Square	1.3	45	FBP100	Al
WR90	9.3-12.4	90WOMTC25-26	Circular	1.3	45	FBP100	Al
WR75	10.0-15.0	75WOMTS19.05-02	Square	1.5	40	FBP120	Al
WR75	10.0-15.0	75WOMTC21.5-02	Circular	1.5	40	FBP120	Al
WR75	10.0-13.0	75WOMTS16.0-06	Square	1.4	40	FBP120	Al
WR75	10.0-13.0	75WOMTC21.5-06	Circular	1.4	40	FBP120	Al
WR75	11.0-14.0	75WOMTS15.0-16	Square	1.5	30	FBP120	Al
WR75	11.0-14.0	75WOMTC21.5-16	Circular	1.5	30	FBP120	Al
WR75	12.0-15.0	75WOMTS13.8-26	Square	1.5	30	FBP120	Al
WR75	12.0-15.0	75WOMTC21.5-26	Circular	1.5	30	FBP120	Al
WR62	12.4-18.0	62WOMTS15.799-02	Square	1.5	40	FBP140	Al
WR62	12.4-18.0	62WOMTWC69-02	Circular	1.5	40	FBP140	Al
WR51	15.0-22.0	51WOMTS12.954-02	Square	1.5	40	FBP180	Al
WR51	15.0-22.0	51WOMTC13.97-02	Circular	1.5	40	FBP180	Al
WR42	18.0-26.5	42WOMTS10.668-02	Square	1.5	40	FBP220	Al
WR42	18.0-26.5	42WOMTC11.94-02	Circular	1.5	40	FBP220	Al
WR34	22.0-33.0	34WOMTS8.636-02	Square	1.5	30	FBP260	Al
WR34	22.0-33.0	34WOMTC10.06-02	Circular	1.5	30	FBP260	Al
WR34	22.0-29.0	34WOMTS7.2-06_Cu	Square	1.5	30	FBP260	Cu
WR34	22.0-29.0	34WOMTC10.06-06_Cu	Circular	1.5	30	FBP260	Cu
WR34	24.3-29.7	34WOMTS6.7-16_Cu	Square	1.5	30	FBP260	Cu
WR34	23.8-31.2	34WOMTC10.06-16_Cu	Circular	1.5	30	FBP260	Cu
WR34	24.3-29.7	34WOMTC10.06-16C_Cu	Circular	1.5	30	FBP260	Cu
WR34	25.0-33.0	34WOMTS6.35-26_Cu	Square	1.5	30	FBP260	Cu
WR34	25.0-33.0	34WOMTC10.06-26_Cu	Circular	1.5	30	FBP260	Cu



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EIA WR	Freq.(GHz)	P/N	Comm. Port WG Type	VSWR Typ.	Iso. (dB) Min.	Flange	Mat.
WR28	26.5-40.0	28WOMTS7.112-02_Cu	Square	1.5	40	FBP320	Cu
WR28	26.5-40.0	28WOMTC8.0-02_Cu	Circular	1.5	40	FBP320	Cu
WR28	26.0-35.0	28WOMTS6.0-26_Cu	Square	1.6	30	FBP320	Cu
WR28	26.0-35.0	28WOMTC8.0-26_Cu	Circular	1.6	30	FBP320	Cu
WR28	28.5-38.0	28WOMTS5.5-16_Cu	Square	1.5	30	FBP320	Cu
WR28	28.5-38.0	28WOMTC8.0-16_Cu	Circular	1.5	30	FBP320	Cu
WR28	30.0-40.0	28WOMTS5.2-06_Cu	Square	1.5	30	FBP320	Cu
WR28	30.0-40.0	28WOMTC8.0-06_Cu	Circular	1.5	30	FBP320	Cu
WR28	23.5-43.5	28WOMTS6.8-62	Square	1.5	30	FBP320	Al
WR28	23.5-43.5	28WOMTWC33-62	Circular	1.5	30	FBP320	Al
WR28	23.0-44.0	28WOMTWC33-63	Circular	1.8	40	FBP320	Al
WR28	22.5-45.0	28WOMTWC38-64	Circular	1.5	35	FBP320	Al
WR28	23.0-44.0	28WOMTS7.112-63	Square	1.8	40	FBP320	Al
WR28	22.5-45.0	28WOMTS7.112-64	Square	1.5	35	FBP320	Al
WR28	24.0-50.0	28WOMTS7.112-68_Cu	Square	1.5	30	FBP320	Al
WR28	24.0-50.0	28WOMTC8.0-68_Cu	Circular	1.5	30	FBP320	Al
WR28	22.5-45.0	28WOMTQC9.34B-64	Quad-Ridge Circular	1.5	30	FBP320	Al
WR28	22.5-45.0	28WOMTQS6.6A-64	Quad-Ridge Square	1.5	30	FBP320	Al
WR22	33.0-50.0	22WOMTS5.69-02_Cu	Square	1.3	45	FUGP400	Cu
WR22	33.0-50.0	22WOMTWC25-02_Cu	Circular	1.3	45	FUGP400	Cu
WR19	40.0-60.0	19WOMTS4.775-02_Cu	Square	1.5	30	FUGP500	Cu
WR19	40.0-60.0	19WOMTWC22-02_Cu	Circular	1.5	30	FUGP500	Cu
WR15	58.0-75.0	15WOMTS2.8-26_Cu	Square	1.5	30	FUGP620	Cu
WR15	54.0-71.0	15WOMTS2.95-16_Cu	Square	1.5	30	FUGP620	Cu
WR15	50.0-66.0	15WOMTS3.2-06_Cu	Square	1.5	30	FUGP620	Cu
WR15	50.0-75.0	15WOMTS3.759-02_Cu	Square	1.5	35	FUGP620	Cu
WR15	50.0-75.0	15WOMTC4.191-02_Cu	Circular	1.5	35	FUGP620	Cu
WR15	50.0-66.0	15WOMTC4.191-06_Cu	Circular	1.5	30	FUGP620	Cu
WR15	54.0-71.0	15WOMTC4.191-16_Cu	Circular	1.5	30	FUGP620	Cu
WR15	58.0-75.0	15WOMTC4.191-26_Cu	Circular	1.5	30	FUGP620	Cu
WR12	60.0-90.0	12WOMTS3.099-02_Cu	Square	1.5	40	FUGP740	Cu
WR12	60.0-90.0	12WOMTWC14-02_Cu	Circular	1.5	40	FUGP740	Cu
WR10	75.0-110.0	10WOMTS2.54-02_Cu	Square	1.5	40	FUGP900	Cu
WR10	75.0-110.0	10WOMTWC11-02_Cu	Circular	1.5	40	FUGP900	Cu



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EIA WR	Freq.(GHz)	P/N	Comm. Port WG Type	VSWR Typ.	Iso. (dB) Min.	Flange	Mat.
WR8	90.0-140.0	8WOMTS2.032-02_Cu	Square	1.8	30	FUGP1200	Cu
WR8	90.0-140.0	8WOMTWC9-02_Cu	Circular	1.8	30	FUGP1200	Cu
WR6	110.0-170.0	6WOMTS1.651-02_Cu	Square	2.0	25	FUGP1400	Cu
WR6	110.0-170.0	6WOMTC1.905-02_Cu	Circular	2.0	25	FUGP1400	Cu
WR5	140.0-220.0	5WOMTS1.2954-02_Cu	Square	2.0	25	FUGP1800	Cu
WR5	140.0-220.0	5WOMTC1.499-02_Cu	Circular	2.0	25	FUGP1800	Cu



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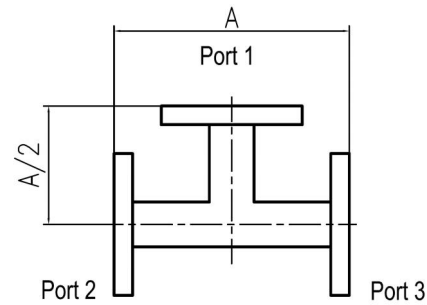
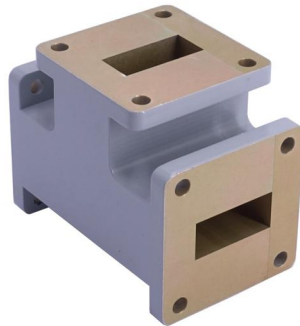
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WG Tee

WG Tee

1. WG ET



P/N	Freq.(GHz)	VSWR	EIA WR	Flange	Mat.	N.W.
650WET	1.12-1.70	1.50	WR650	FDP14	Al	-
510WET	1.45-2.20	1.50	WR510	FDP18	Al	-
430WET	1.70-2.60	1.50	WR430	FDP22	Al	4.56
340WET	2.20-3.30	1.50	WR340	FDP26	Al	2.67
284WET	2.60-3.95	1.50	WR284	FDP32	Al	-
229WET	3.30-4.90	1.50	WR229	FDP40	Al	1.12
187WET	3.95-5.85	1.50	WR187	FDP48	Al	0.4
187WET/C10	4.40-5.0	1.50	WR187	FDP48	Al	0.4
159WET	4.90-7.05	1.50	WR159	FDP58	Al	0.3
137WET	5.85-8.20	1.50	WR137	FDP70	Al	-
112WET	7.05-10.0	1.50	WR112	FBP84	Al	-
90WET	8.20-12.4	1.50	WR90	FBP100	Al	0.1
75WET	10.0-15.0	1.50	WR75	FBP120	Al	0.15
62WET	12.4-18.0	1.50	WR62	FBP140	Al	0.1
51WET	15.0-22.0	1.50	WR51	FBP180	Al	0.1
42WET_Cu	18.0-26.5	1.50	WR42	FBP220	Cu	0.14
34WET_Cu	22.0-33.0	1.50	WR34	FBP260	Cu	0.15
28WET_Cu	26.5-40.0	1.50	WR28	FBP320	Cu	0.1
22WET_Cu	33.0-50.0	1.50	WR22	FUGP400	Cu	0.35
19WET_Cu	40.0-60.0	1.50	WR19	FUGP500	Cu	0.34
15WET_Cu	50.0-75.0	1.30	WR15	FUGP620	Cu	0.1
12WET_Cu	60.0-90.0	1.30	WR12	FUGP740	Cu	0.1
10WET_Cu	75.0-110.0	1.50	WR10	FUGP900	Cu	0.1



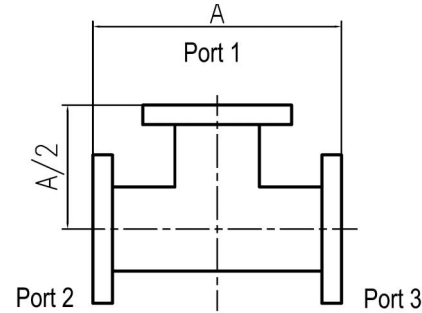
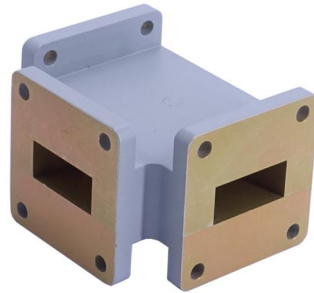
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WG Tee

2. WG HT



P/N	Freq.(GHz)	VSWR	EIA WR	Flange	Mat.	N.W.
650WHT	1.12-1.70	1.50	WR650	FDP14	Al	-
510WHT	1.45-2.20	1.50	WR510	FDP18	Al	-
430WHT	1.70-2.60	1.50	WR430	FDP22	Al	-
340WHT	2.20-3.30	1.50	WR340	FDP26	Al	2.203
284WHT	2.60-3.95	1.50	WR284	FDP32	Al	0.65
229WHT	3.30-4.90	1.50	WR229	FDP40	Al	-
187WHT	3.95-5.85	1.50	WR187	FDP48	Al	-
159WHT	4.90-7.05	1.50	WR159	FDP58	Al	0.3
137WHT	5.85-8.20	1.50	WR137	FDP70	Al	-
112WHT	7.05-10.0	1.50	WR112	FBP84	Al	-
90WHT	8.20-12.4	1.50	WR90	FBP100	Al	0.16
75WHT	10.0-15.0	1.50	WR75	FBP120	Al	0.15
75WHT	10.70-12.75	1.50	WR75	FBP120	Al	0.1
62WHT	12.4-18.0	1.50	WR62	FBP140	Al	0.1
51WHT	15.0-22.0	1.50	WR51	FBP180	Al	-
42WHT_Cu	18.0-26.5	1.50	WR42	FBP220	Cu	0.24
34WHT_Cu	22.0-33.0	1.50	WR34	FBP260	Cu	0.16
28WHT_Cu	26.5-40.0	1.50	WR28	FBP320	Cu	0.1



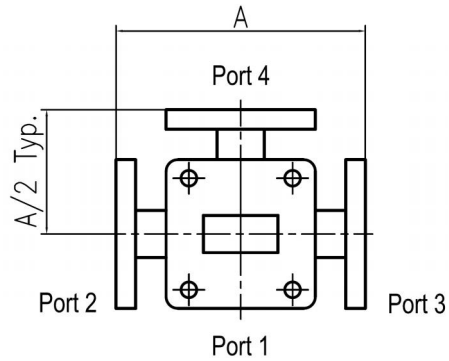
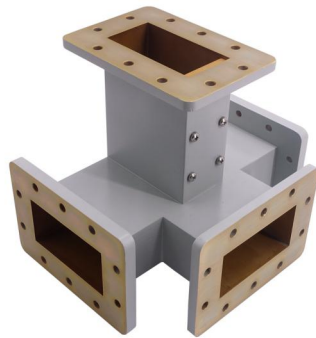
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WG Tee

3. WG Magic Tee



EIA WR	Freq.(GHz)	P/N	VSWR H-Plane	VSWR E-Plane	Iso. (dB)	Flange	Mat.	N.W.
WR650	1.12-1.70	650WMT	1.30	1.50	30	FDP14	Al	-
WR430	1.70-2.60	430WMT	1.30	1.50	30	FDP22	Al	-
WR340	2.20-3.30	340WMT	1.30	1.50	30	FDP26	Al	1.58
WR284	2.60-3.95	284WMT	1.30	1.50	30	FDP32	Al	1.0
WR229	3.30-4.90	229WMT	1.30	1.50	30	FDP40	Al	1.143
WR187	3.95-5.85	187WMT	1.30	1.50	30	FDP48/FDM48	Al	0.88
WR159	4.90-7.05	159WMT	1.30	1.50	30	FDP58	Al	0.7
WR137	5.85-8.20	137WMT	1.30	1.50	30	FDP70	Al	0.46
WR112	7.05-10.0	112WMT	1.30	1.50	30	FBP84	Al	0.347
WR90	8.20-12.4	90WMT	1.30	1.50	30	FBP100	Al	0.26
WR75	10.0-15.0	75WMT	1.30	1.50	30	FBP120	Al	0.18
WR62	12.4-18.0	62WMT	1.30	1.50	30	FBP140/FBM140	Al	0.12
WR51	15.0-22.0	51WMT	1.30	1.50	30	FBP180	Al	0.10
WR42	18.0-26.5	42WMT_Cu	1.30	1.50	30	FBP220	Cu	0.20
WR34	22.0-33.0	34WMT_Cu	1.30	1.50	30	FBP260	Cu	0.16
WR28	26.5-40.0	28WMT_Cu	1.30	1.50	30	FBP320	Cu	0.10
WR22	33.0-50.0	22WMT_Cu	1.40	1.60	30	FUGP400	Cu	0.35
WR19	40.0-60.0	19WMT_Cu	1.40	1.60	30	FUGP500	Cu	0.35
WR15	50.0-75.0	15WMT_Cu	1.40	1.60	30	FUGP620	Cu	0.1
WR12	60.0-90.0	12WMT_Cu	1.40	1.60	30	FUGP740	Cu	0.1
WR10	75.0-110.0	10WMT_Cu	1.50	1.50	30	FUGP900	Cu	0.1



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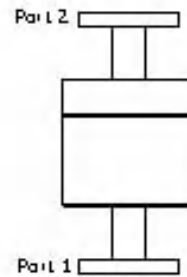
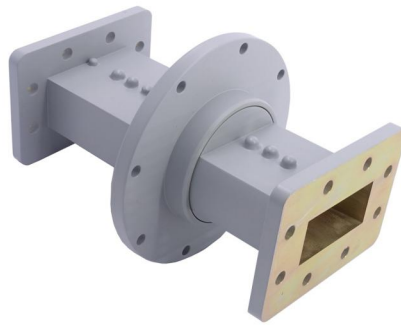
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WG Rotary Joint

WG Rotary Joint

1. WG Rotary Joint (I Type)



P/N	Freq.(GHz)	EIA WR	BW (MHz)	VSWR	I.L. (dB)	Avg. Power (W)	Peak Power (KW)	Flange	Mat.
187WRJI-06A	4.4-4.6	WR187	FULL	1.20	0.3	600	600	FDP48	Al
187WRJI-06B	4.8-5.0	WR187	FULL	1.20	0.3	600	600	FDP48	Al
112WRJI-06A	7.05-10.0	WR112	FULL	1.25	0.3	400	150	FBP84	Al
112WRJI-06B	7.50-8.50	WR112	FULL	1.25	0.3	400	150	FBP84	Al
112WRJI-06C	8.50-10.0	WR112	FULL	1.25	0.3	400	150	FBP84	Al
112WRJI-06D	8.0-8.5	WR112	FULL	1.25	0.3	400	150	FBP84	Al
90WRJI-06A	8.50-10.0	WR90	FULL	1.15	0.15	400	150	FBP100	Al
75WRJI-26A	12.0-15.0	WR75	FULL	1.35	0.3	750	5	FBP120	Al
62WRJI-26C	16.0-17.0	WR62	FULL	1.30	0.4	100	4	FBP140	Al
112WRJI_Cu_BEBC	7.05-10.0	WR112	-	1.25	0.5	2000	150	FBE84	Cu



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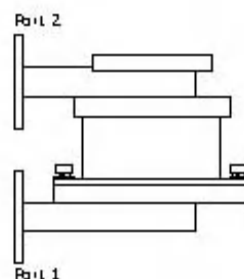
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WG Rotary Joint

2. WG Rotary Joint (U Type)



P/N	Freq. (GHz)	EIA WR	BW (MHz)	VSWR	I.L. (dB)	Avg. Power (W)	Peak Power (KW)	Flange	Mat.
284WRJU	2.60-3.95	WR284	200	1.20	0.3	600	600	FDP32/ FDM32	Al/ Cu
229WRJU	3.30-4.90	WR229	200	1.20	0.3	600	600	FDP40/ FDM40	Al/ Cu
187WRJU	3.95-5.85	WR187	200	1.20	0.3	600	600	FDP48/ FDM48	Al/ Cu
159WRJU	4.90-7.05	WR159	300	1.25	0.3	500	150	FDP58/ FDM58	Al/ Cu
137WRJU	5.85-8.20	WR137	300	1.25	0.3	500	150	FDP70/ FDM70	Al/ Cu
112WRJU	7.05-10.0	WR112	300	1.25	0.3	400	150	FBP84/ FBM84/ FBE84	Al/ Cu
90WRJU	8.20-12.4	WR90	300	1.25	0.3	400	150	FBP100/ FBM100/ FBE100	Al/ Cu
75WRJU	10.0-15.0	WR75	500	1.25	0.3	200	10	FBP120/ FBM120/ FBE120	Al/ Cu
62WRJU	12.4-18.0	WR62	1000	1.30	0.4	100	4	FBP140/ FBM140/ FBE140	Al/ Cu
51WRJU_Cu	15.0-22.0	WR51	1000	1.30	0.4	100	3	FBP180/ FBM180/ FBE180	Cu/ Al
42WRJU_Cu	18.0-26.5	WR42	2000	1.40	1.0	50	0.5	FBP220/ FBM220/ FBE220	Cu/ Al
34WRJU_Cu	22.0-33.0	WR34	2000	1.40	1.0	30	0.3	FBP260/ FBM260/ FBE260	Cu/ Al
28WRJU_Cu	26.5-40.0	WR28	2000	1.40	1.0	30	0.3	FBP320/ FBM320/ FBE320	Cu/ Al



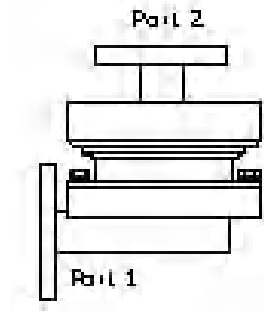
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WG Rotary Joint

3. WG Rotary Joint (L Type)



P/N	Freq.(GHz)	EIA WR	BW (MHz)	VSWR	I.L. (dB)	Avg. Power (W)	Peak Power (KW)	Flange	Mat.
90WRJL-06A	8.50-10.0	WR90	FULL	1.25	0.3	400	150	FBP100	Al
75WRJL-26A	12.0-15.0	WR75	FULL	1.35	0.3	750	5	FBP120	Al
75WRJL-26C	14.0-14.5	WR75	FULL	1.25	0.15	100	4	FBP120	Al
62WRJL-26C	16.0-17.0	WR62	FULL	1.50	0.4	100	4	FBP140	Al
34WRJL-16A_Cu	23.8-31.2	WR34	FULL	1.40	1.0	30	0.3	FBP260	Cu
34WRJL-16C_Cu	24.3-29.7	WR34	FULL	1.40	1.0	30	0.3	FBP260	Cu
34WRJL-16D_Cu	24.0-30.0	WR34	FULL	1.40	1.0	30	0.3	FBP260	Cu
28WRJL-26C_Cu	28.0-30.0	WR28	FULL	1.40	1.0	30	0.3	FBP320	Cu
28WRJL-06C_Cu	34.0-36.0	WR28	FULL	1.40	1.0	30	0.3	FBP320	Cu

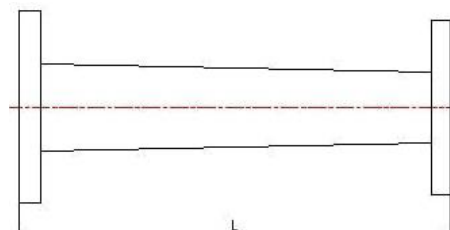
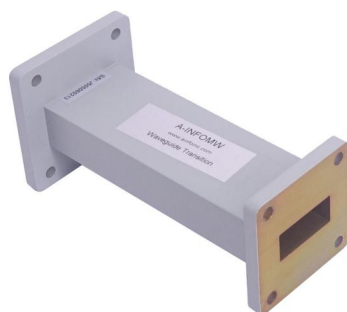


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WG Transition

WG Transition

1. WG Transition - Rectangular to Rectangular



A-INFO's waveguide tapered transitions cover the frequency range up to 170 GHz in several waveguide bands. The tapered transitions allow very efficient propagation of RF energy from one waveguide size to another. Transitions are available in standard lengths as well as customer specific lengths.

Model Information

Example Part Number: 430 340 WA -XX

Larger WG Size

Smaller WG Size

Product Code

Length

EIA WR	Freq.(GHz)	Length (mm/inch)	P/N	VSWR	Flange	Mat.	N.W.
WR430 to WR340	2.20 - 2.60	330.2/13	430340WA-330.2	1.05	WR430: FDP22 WR340: FDP26	Al	-
WR430 to WR340	2.20 - 2.60	254/10	430340WA-254	1.05	WR430: FDP22 WR340: FDP26	Al	-
WR430 to WR340	2.20 - 2.60	177.8/11.5	430340WA-177.8	1.05	WR430: FDP22 WR340: FDP26	Al	-
WR340 to WR284	2.60-3.30	292.1/11.5	340284WA-292.1	1.05	WR340: FDP26 WR284: FDP32	Al	-
WR340 to WR284	2.60-3.30	100/3.9	340284WA-100	1.05	WR340: FDP26 WR284: FDP32	Al	-
WR284 to WR229	3.30-3.95	279.4/11	284229WA-279.4	1.05	WR284: FDP32 WR229: FDP40	Al	-
WR229 to WR187	3.95-4.90	254/10	229187WA-254	1.05	WR229: FDP40 WR187: FDP48	Al	-
WR187 to WR159	4.90-5.85	228.6/9	187159WA-228.6	1.05	WR187: FDP48/ FDM48 WR159: FDP58 FDM58	Al	0.68
WR159 to WR137	5.85-7.05	152.4/6	159137WA-152.4	1.05	WR159: FDP58 WR137: FDP70	Al	0.4



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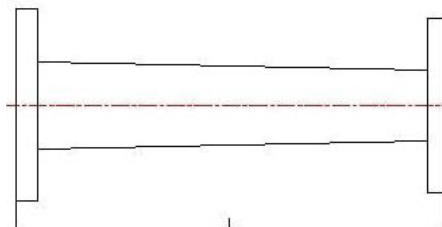
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WG Transition

2. WG Transition - Rectangular to Rectangular Transition Specials



These precisely machined transitions allow connection between rectangular waveguides with low insertion loss and good match. These transitions are most suitable for laboratory set-ups to measure non-overlapping rectangular waveguide components.

The attached table ONLY lists the transition model numbers and lengths for standard non-overlapping bands. For more over-moded transformers, which is available up to the second and third harmonic of the rectangular fundamental frequency band, please consult A-INFO for details. Other lengths, bands and types may also be requested.

Model Information					
Example Part Number:		284	187	WA	-XX
Larger WG Size					
Smaller WG Size					
Product Code					
Length					

EIA WR	Length (mm/inch)	P/N	Flange	Mat.	N.W.
WR650 to WR430	292.1/11.5	650430WA-292.1	WR650: FDP14 WR430: FDP22	Al	1.82
WR430 to WR284	203.2/8	430284WA-203.2	WR430: FDP22 WR284: FDP32	Al	0.88
WR284 to WR187	304.8/12	284187WA-304.8	WR284: FDP32 WR187: FDP48	Al	0.68
WR284 to WR137	254/10	284137WA-254	WR284: FDP32 WR137: FDP70	Al	-
WR284 to WR90	304.8/12	28490WA-304.8	WR284: FDP32 WR90: FBP100	Al	-
WR187 to WR137	136.6/5.38	187137WA-136.6	WR187: FDP48 WR137: FDP70	Al	0.30
WR187 to WR90	279.4/11	18790WA-279.4	WR187: FDP48 WR90: FBP100	Al	0.73
WR187 to WR90	400/15.75	18790WA-400	WR187: FDP48 WR90: FBP100	Al	-
WR187 to WR75	304.8/12	18775WA-304.8	WR187: FDP48 WR75: FBP120	Al	-
WR137 to WR90	254/10	13790WA-254	WR137: FDP70 WR90: FBP100	Al	0.4
WR137 to WR75	304.8/12	13775WA-304.8	WR137: FDP70 WR75: FBP120	Al	-



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WG Transition

EIA WR	Length (mm/inch)	P/N	Flange	Mat.	N.W.
WR112 to WR75	119.1/4.69	11275WA-119.1	WR112: FBP84 WR75:FBP120	Al	-
WR112 to WR28	254/10	11228WA-254	WR112: FBP84 WR28:FBP320	Al	-
WR90 to WR62	152.4/6	9062WA-152.4	WR90: FBP100 WR62:FBP140	Al	0.2
WR90 to WR42	203.2/8	9042WA-203.2_Cu	WR90: FBP100 WR42:FBP220	Cu	-
WR90 to WR28	203.2/8	9028WA-203.2_Cu	WR90: FBP100 WR28:FBP320	Cu	0.55
WR62 to WR42	25.4/1	6242WA-25.4_Cu	WR62:FBP140 WR42:FBP220	Cu	0.07
WR62 to WR42	152.4/6	6242WA-152.4_Cu	WR62:FBP140 WR42:FBP220	Cu	0.38
WR62 to WR28	152.4/6	6228WA-152.4_Cu	WR62:FBP140 WR28:FBP320	Cu	0.36
WR42 to WR28	50/2	4228WA-50_Cu	WR42:FBP220 WR28:FBP320	Cu	0.04
WR42 to WR22	55.9/2.2	4222WA-55.9_Cu	WR42:FBP220 WR22:FUGP400	Cu	0.08
WR42 to WR19	63.5/2.5	4219WA-63.5_Cu	WR42:FBP220 WR19:FUGP500	Cu	0.09
WR42 to WR15	68.6/2.7	4215WA-68.6_Cu	WR42:FBP220 WR15:FUGP620	Cu	-
WR42 to WR12	83.8/3.3	4212WA-83.8_Cu	WR42:FBP220 WR12:FUGP740	Cu	-
WR42 to WR10	83.8/3.3	4210WA-83.8_Cu	WR42:FBP220 WR10:FUGP900	Cu	0.12
WR42 to WR8	83.8/3.3	428WA-83.8_Cu	WR42:FBP220 WR8:UG387/U-M	Cu	-
WR42 to WR6	88.9/3.5	426WA-88.9_Cu	WR42:FBP220 WR6:UG387/U-M	Cu	-
WR42 to WR5	91.4/3.6	425WA-91.4_Cu	WR42:FBP220 WR5:UG387/U-M	Cu	-
WR34 to WR22	50/2	3422WA-50_Cu	WR34:FBP260 WR22:FUGP400	Cu	0.052
WR28 to WR19	50/2	2819WA-50_Cu	WR28:FBP320 WR19:FUGP500	Cu	0.05
WR28 to WR15	50/2	2815WA-50_Cu	WR28:FBP320 WR15:FUGP620	Cu	0.04
WR28 to WR12	55.9/2.2	2812WA-55.9_Cu	WR28:FBP320 WR12:FUGP740	Cu	0.045
WR28 to WR10	55.9/2.2	2810WA-55.9_Cu	WR28:FBP320 WR10:FUGP900	Cu	0.046
WR28 to WR8	55.9/2.2	288WA-55.9_Cu	WR28:FBP320 WR8:UG387/U-M	Cu	-
WR28 to WR6	58.4/2.3	286WA-58.4_Cu	WR28:FBP320 WR6:UG387/U-M	Cu	-
WR28 to WR5	61.0/2.4	285WA-61_Cu	WR28:FBP320 WR5:UG387/U-M	Cu	-



WG Transition

EIA WR	Length (mm/inch)	P/N	Flange	Mat.	N.W.
WR22 to WR15	45.7/1.8	2215WA-45.7_Cu	WR22:FUGP400 WR15:FUGP620	Cu	-
WR22 to WR12	45.7/1.8	2212WA-45.7_Cu	WR22:FUGP400 WR12:FUGP740	Cu	0.04
WR22 to WR10	45.7/1.8	2210WA-45.7_Cu	WR22:FUGP400 WR10:FUGP900	Cu	-
WR22 to WR8	45.7/1.8	228WA-45.7_Cu	WR22:FUGP400 WR8:UG387/U-M	Cu	0.04
WR22 to WR6	45.7/1.8	226WA-45.7_Cu	WR22:FUGP400 WR6:UG387/U-M	Cu	-
WR22 to WR5	48.3/1.9	225WA-48.3_Cu	WR22:FUGP400 WR5:UG387/U-M	Cu	-
WR19 to WR12	38.1/1.5	1912WA-38.1_Cu	WR19:FUGP500 WR12:FUGP740	Cu	0.04
WR19 to WR10	38.1/1.5	1910WA-38.1_Cu	WR19:FUGP500 WR10:FUGP900	Cu	-
WR19 to WR8	38.1/1.5	198WA-38.1_Cu	WR19:FUGP500 WR8:UG387/U-M	Cu	-
WR19 to WR6	38.1/1.5	196WA-38.1_Cu	WR19:FUGP500 WR6:UG387/U-M	Cu	-
WR19 to WR5	40.6/1.6	195WA-40.6_Cu	WR19:FUGP500 WR5:UG387/U-M	Cu	-
WR15 to WR10	35.6/1.4	1510WA-35.6_Cu	WR15:FUGP620 WR10:FUGP900	Cu	0.025
WR15 to WR10	50/2	1510WA-50_Cu	WR15:FUGP620 WR10:FUGP900	Cu	0.031
WR15 to WR8	35.6/1.4	158WA-35.6_Cu	WR15:FUGP620 WR8:UG387/U-M	Cu	-
WR15 to WR6	35.6/1.4	156WA-35.6_Cu	WR15:FUGP620 WR6:UG387/U-M	Cu	-
WR15 to WR5	35.6/1.4	155WA-35.6_Cu	WR15:FUGP620 WR5:UG387/U-M	Cu	-
WR12 to WR8	33/1.3	128WA-33_Cu	WR12:FUGP740 WR8:UG387/U-M	Cu	-
WR12 to WR6	33/1.3	126WA-33_Cu	WR12:FUGP740 WR6:UG387/U-M	Cu	-
WR12 to WR5	33/1.3	125WA-33_Cu	WR12:FUGP740 WR5:UG387/U-M	Cu	-
WR10 to WR6	30/1.2	106WA-30_Cu	WR10:FUGP900 WR6:UG387/U-M	Cu	-
WR10 to WR5	30/1.2	105WA-30_Cu	WR10:FUGP900 WR5:UG387/U-M	Cu	-
WR10 to WR3	30/1.2	103WA-30_Cu	WR10:FUGP900 WR3:UG387/U-M	Cu	0.024
WR10 to WR3	24.4/1	103WA-25.4_Cu	WR10:FUGP900 WR3: APF3	Cu	
WR8 to WR5	27.9/1.1	85WA-27.9_Cu	WR8:UG387/U-M WR5:UG387/U-M	Cu	-
WR6 to WR4	24.4/1	64WA-25.4_Cu	WR6:UG387/U-M WR4:UG387/U-M	Cu	0.02



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WG Transition

3. WG Transition – EIA Standard Circular to Rectangular



A-INFO's circular to rectangular waveguide transitions cover the frequency range up to 170 GHz in several waveguide bands. The waveguide transitions are used to connect standard EIA rectangular waveguide to EIA circular waveguide with a low loss and reflection. Transitions are also available in customer specific circular waveguide size and lengths.

For Standard EIA WC Circular to Rectangular Waveguide Transition

Model Information					
Example Part Number:		90	WC	94	WA-XX
Rectangular WG Size					
EIA WC Waveguide Code					
EIA Circular WC Designation					
Refer to Standard Circular WG Size					
Product Code					
Length					

EIA WR	Freq.(GHz)	Length (mm/inch)	P/N	VSWR	Flange	Mat.
WR90	8.20-12.4	101.6 / 4	90WCXXWA-101.6	1.1	FBP100/FBP84-M/FBP100-M	Al
WR75	10.0-15.0	76.2 / 3	75WCXXWA-76.2	1.1	FBP120/FBP120-M	Al
WR62	12.4-18.0	50.8 / 2	62WCXXWA-50.8	1.1	FBP140/FBP140-M	Al
				1.25		
WR51	15.0-15.9	50.8 / 2	51WCXXWA-50.8_Cu	1.1	FBP180/FBP180-M /UG-595/U-M	Cu
WR42	18.0-26.5	50.8 / 2	42WCXXWA-50.8_Cu	1.1	FBP220/FBP140-M /UG-595/U-MFBP180-M /UG-381/U-M	Cu
WR34	22.0-33.0	50.8 / 2	34WCXXWA-50.8_Cu	1.1	FBP260/UG-595/U-M /UG-381/U-M/UG-383/U-M	Cu
WR28	26.5-40.0	38.1 / 1.5	28WCXXWA-38.1_Cu	1.1	FBP320/UG-595/U-M /UG-383/U-M/UG-381/U-M	Cu



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EIA WR	Freq.(GHz)	Length (mm/inch)	P/N	VSWR	Flange	Mat.
WR22	33.0-50.0	38.1 / 1.5	22WCXXWA-38.1_Cu	1.1	FUGP400/UG-381/U-M /UG-383/U-M/UG-385/U-M	Cu
WR19	40.0-60.0	38.1 / 1.5	19WCXXWA-38.1_Cu	1.1	FUGP500/UG-383/U-M /UG-385/U-M/UG-387/U-M	Cu
WR15	50.0-75.0	27.9/1.1	15WCXXWA-27.9_Cu	1.1	FUGP620/UG-383/U-M /UG-385/U-M/UG-387/U-M	Cu
WR12	60.0-90.0	27.9/1.1	12WCXXWA-27.9_Cu	1.1	FUGP740/UG-385/U-M /UG-387/U-M	Cu
WR10	75.0-110.0	27.9/1.1	10WCXXWA-27.9_Cu	1.1	FUGP900/UG-387/U-M	Cu
WR8	90.0-116.0	27.9/1.1	8WCXXWA-27.9_Cu	1.15	UG-387/U-M	Cu
WR6	110.0-116.0	27.9/1.1	6WCXXWA-27.9_Cu	1.15	UG-387/U-M	Cu



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WG Transition

4. WG Transition – Other Circular to Rectangular



A-INFO's circular to rectangular waveguide transitions cover the frequency range up to 170 GHz in several waveguide bands. The waveguide transitions are used to connect standard EIA rectangular waveguide to EIA circular waveguide with a low loss and reflection. Transitions are also available in customer specific circular waveguide size and lengths.

EIA WR	Freq.(GHz)	Length (mm/inch)	P/N	VSWR	Flange	Mat.
WR90	8.2-12.4	101.6/4	90CXXWA-101.6	1.1	FBP100/FBP100-M/ FBP120-M	Al
WR75	10-15	76.2/3	75CXXWA-76.2	1.1	FBP120/FBP120-M/ FBP140-M/ FBP180-M	Al
WR62	12.4-18	50.8/2	62CXXWA-50.8	1.1	FBP140/FBP120-M/ FBP140-M/ FBP180-M /UG-595/U-M	Al
WR51	15-22	50.8/2	51CXXWA-50.8_Cu	1.1	FBP180/FBP180-M/ UG-595/U-M	Cu
WR42	18-26.5	50.8/2	42CXXWA-50.8_Cu	1.1	FBP220/UG-595/U-M UG-381/U-M	Cu
WR34	22-33	50.8/2	34CXXWA-50.8_Cu	1.1	FBP260/UG-595 /U-M/UG-381/U-M	Cu
WR28	29-33	38.1/1.5	28CXXWA-38.1_Cu	1.1	FBP320/UG-381/U-M	Cu
WR19	50-58	38.1/1.5	19C4.191WA-38.1_Cu	1.1	FUGP500/UG-385/U-M	Cu
WR15	50-58.1	27.9/1.1	15C4.191WA-27.9_Cu	1.1	FUGP620/UG-385/U-M	Cu
WR10	100-110	27.9/1.1	10C2.083WA-27.9_Cu	1.1	FUGP900/UG-387/U-M	Cu
WR8	100-140	27.9/1.1	8CXXWA-27.9_Cu	1.2	UG-387/U-M	Cu
WR6	110-160	27.9/1.1	6CXXWA-27.9_Cu	1.2	UG-387/U-M	Cu
WR5	183-220	27.9/1.1	5C1.168WA-27.9_Cu	1.2	UG-387/U-M	Cu
WR4	183-240	27.9/1.1	4C1.168WA-27.9_Cu	1.2	UG-387/U-M	Cu
WR34	220-240	27.9/1.1	3C1.168WA-27.9_Cu	1.2	UG-387/U-M	Cu



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WG Transition

5. WG Transition - Double Ridge to Rectangular



These precisely machined transitions allow connection of double-ridge waveguides to rectangular waveguides or other ridge guides with low insertion loss and good match. These transitions are most suitable for laboratory set-ups to measure double-ridge components with rectangular waveguide test equipment and vice versa.

The attached table ONLY lists the transition model numbers and lengths for overlapping bands. For over-moded transformers, which is available up to the second and third harmonic of the double-ridge fundamental frequency band, please consult A-INFO for details. Other lengths, bands and types may also be requested.

Model Information

Example Part Number:	84D	975	WA	-XX
Double Ridge WG Size				
WG Size				
Product Code				
Length				

EIA WR	Freq.(GHz)	Length (mm/inch)	P/N	VSWR	Flange	Mat.	N.W.
WRD84 to WR975	0.84-1.12	304.8/12	84D975WA-304.8	1.15	WRD84:FPWRD84D24 WR975:FDP9	Al	-
WRD84 to WR770	0.96-1.45	304.8/12	84D770WA-304.8	1.15	WRD84:FPWRD84D24 WR770:FDP12	Al	-
WRD84 to WR650	1.12-1.70	304.8/12	84D650WA-304.8	1.15	WRD84:FPWRD84D24 WR650:FDP14	Al	-
WRD84 to WR510	1.45-2.0	228.6/9	84D510WA-228.6	1.15	WRD84:FPWRD84D24 WR510:FDP18	Al	-
WRD84 to WR430	1.70-2.0	228.6/9	84D430WA-228.6	1.15	WRD84:FPWRD84D24 WR430:FDP22	Al	-
WRD200 to WR430	2.0-2.60	228.6/9	200D430WA-228.6	1.15	WRD200:FPWRD200D24 WR430:FDP22	Al	1.1
WRD200 to WR340	2.20-3.30	228.6/9	200D340WA-228.6	1.15	WRD200:FPWRD200D24 WR340:FDP26	Al	-
WRD200 to WR284	2.60-3.95	228.6/9	200D284WA-228.6	1.15	WRD200:FPWRD200D24 WR284:FDP32	Al	-
WRD200 to WR229	3.30-4.80	228.6/9	200D229WA-228.6	1.15	WRD200:FPWRD200D24 WR229:FDP40	Al	-
WRD200 to WR187	3.95-4.80	228.6/9	200D187WA-228.6	1.15	WRD200:FPWRD200D24 WR187:FDP48	Al	-
WRD250 to WR340	2.60-3.30	228.6/9	250D340WA-228.6	1.15	WRD250:FPWRD250D30 WR340:FDP26	Al	0.91
WRD250 to WR284	2.60-3.95	228.6/9	250D284WA-228.6	1.15	WRD250:FPWRD250D30 WR284:FDP32	Al	0.76
WRD250 to WR229	3.30-4.90	228.6/9	250D229WA-228.6	1.15	WRD250:FPWRD250D30 WR229:FDP40	Al	0.79
WRD250 to WR187	3.95-5.85	228.6/9	250D187WA-228.6	1.15	WRD250:FPWRD250D30 WR187:FDP48	Al	0.7



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EIA WR	Freq.(GHz)	Length (mm/inch)	P/N	VSWR	Flange	Mat.	N.W.
WRD250 to WR159	4.90-7.05	203.2/8	250D159WA-203.2	1.15	WRD250:FPWRD250D30 WR159:FDP58	Al	0.47
WRD250 to WR137	5.85-7.80	203.2/8	250D137WA-203.2	1.15	WRD250:FPWRD250D30 WR137:FDP70	Al	0.44
WRD250 to WR112	7.05-7.80	177.8/7	250D112WA-177.8	1.15	WRD250:FPWRD250D30 WR112:FBP84	Al	0.45
WRD350 to WR284	3.50-3.95	152.4/6	350D284WA-152.4	1.20	WRD350:FPWRD350D24 WR284:FDP32	Al	-
WRD350 to WR229	3.50-4.90	152.4/6	350D229WA-152.4	1.20	WRD350:FPWRD350D24 WR229:FDP40	Al	-
WRD350 to WR187	3.95-5.85	152.4/6	350D187WA-152.4	1.20	WRD350:FPWRD350D24 WR187:FDP48	Al	0.31
WRD350 to WR159	4.90-7.05	152.4/6	350D159WA-152.4	1.15	WRD350:FPWRD350D24 WR159:FDP58	Al	0.47
WRD350 to WR137	5.85-8.20	152.4/6	350D137WA-152.4	1.15	WRD350:FPWRD350D24 WR137:FDP70	Al	0.35
WRD350 to WR112	7.05-8.20	152.4/6	350D112WA-152.4	1.15	WRD350:FPWRD350D24 WR112:FBP84	Al	0.42
WRD475 to WR187	4.75-5.85	152.4/6	475D187WA-152.4	1.15	WRD475:FPWRD475D24 WR187:FDP48	Al	-
WRD475 to WR159	4.90-7.05	152.4/6	475D159WA-152.4	1.15	WRD475:FPWRD475D24 WR159:FDP58	Al	-
WRD475 to WR137	5.85-8.20	147.3/5.8	475D137WA-147.3	1.15	WRD475:FPWRD475D24 WR137:FDP70	Al	-
WRD475 to WR112	7.05-10.0	114.3/4.5	475D112WA-114.3	1.15	WRD475:FPWRD475D24 WR112:FBP84	Al	0.10
WRD475 to WR90	8.20-11.0	152.4/6	475D90WA-152.4	1.15	WRD475:FPWRD475D24 WR90:FBP100	Al	0.17
WRD475 to WR75	10.0-11.0	152.4/6	475D75WA-152.4	1.15	WRD475:FPWRD475D24 WR75:FBP120	Al	-
WRD580 to WR159	5.80-7.05	152.4/6	580D159WA-152.4	1.15	WRD580:FPWRD580D28 WR159:FDP58	Al	0.35
WRD580 to WR137	5.85-8.20	152.4/6	580D137WA-152.4	1.15	WRD580:FPWRD580D28 WR137:FDP70	Al	0.3
WRD580 to WR112	7.05-10.0	114.3/4.5	580D112WA-114.3	1.15	WRD580:FPWRD580D28 WR112:FBP84	Al	0.23
WRD580 to WR90	8.20-12.4	127/5	580D90WA-127	1.15	WRD580:FPWRD580D28 WR90:FBP100	Al	0.19
WRD580 to WR75	10.0-15.0	114.3/4.5	580D75WA-114.3	1.15	WRD580:FPWRD580D28 WR75:FBP120	Al	0.17
WRD580 to WR75	10.0-15.0	114.3/4.5	580D75WA-114.3_Cu	1.15	WRD580:FPWRD580D28 WR75:FBP120	Cu	0.5
WRD580 to WR62	12.4-16.0	101.6/4	580D62WA-101.6	1.15	WRD580:FPWRD580D28 WR62:FBP140	Al	0.13
WRD580 to WR51	15.0-16.0	152.4/6	580D51WA-152.4	1.15	WRD580:FPWRD580D28 WR51:FBP180	Al	0.168
WRD650 to WR159	6.50-7.05	152.4/6	650D159WA-152.4	1.2	WRD650:FPWRD650D28 WR159:FDP58	Al	0.33
WRD650 to WR137	6.50-8.20	152.4/6	650D137WA-152.4	1.15	WRD650:FPWRD650D28 WR137:FDP70	Al	0.26
WRD650 to WR112	7.05-10.0	114.3/4.5	650D112WA-114.3	1.15	WRD650:FPWRD650D28 WR112:FBP84	Al	0.21



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EIA WR	Freq.(GHz)	Length (mm/inch)	P/N	VSWR	Flange	Mat.	N.W.
WRD650 to WR90	8.20-12.4	127/5	650D90WA-127	1.15	WRD650:FPWRD650D28 WR90:FBP100	Al	0.2
WRD650 to WR75	10.0-15.0	114.3/4.5	650D75WA-114.3	1.15	WRD650:FPWRD650D28 WR75:FBP120	Al	0.18
WRD650 to WR62	12.4-18.0	101.6/4	650D62WA-101.6	1.15	WRD650:FPWRD650D28 WR62:FBP140	Al	0.15
WRD650 to WR62	12.4-18.0	101.6/4	650D62WA-101.6_Cu	1.15	WRD650:FPWRD650D28 WR62:FBP140	Cu	0.4
WRD650 to WR51	15.0-18.0	101.6/4	650D51WA-101.6	1.15	WRD650:FPWRD650D28 WR51:FBP180	Al	0.12
WRD750 to WR137	7.50-8.20	152.4/6	750D137WA-152.4	1.15	WRD750:FPWRD750D24 WR137:FDP70	Al	0.3
WRD750 to WR112	7.50-10.0	114.3/4.5	750D112WA-114.3	1.15	WRD750:FPWRD750D24 WR112:FBP84	Al	0.26
WRD750 to WR90	8.20-12.4	127/5	750D90WA-127	1.15	WRD750:FPWRD750D24 WR90:FBP100	Al	0.16
WRD750 to WR90	8.20-12.4	127/5	750D90WA-127_Cu	1.15	WRD750:FPWRD750D24 WR90:FBP100	Cu	0.46
WRD750 to WR75	10.0-15.0	114.3/4.5	750D75WA-114.3	1.15	WRD750:FPWRD750D24 WR75:FBP120	Al	0.14
WRD750 to WR75	10.0-15.0	114.3/4.5	750D75WA-114.3_Cu	1.15	WRD750:FPWRD750D24 WR75:FBP120	Cu	0.26
WRD750 to WR62	12.4-18.0	101.6/4	750D62WA-101.6	1.15	WRD750:FPWRD750D24 WR62:FBP140	Al	0.12
WRD750 to WR62	12.4-18.0	101.6/4	750D62WA-101.6_Cu	1.15	WRD750:FPWRD750D24 WR62:FBP140	Al	0.26
WRD750 to WR51	15.0-18.0	101.6/4	750D51WA-101.6	1.15	WRD750:FPWRD750D24 WR51:FBP180	Al	0.12
WRD750 to WR51	15.0-18.0	101.6/4	750D51WA-101.6_Cu	1.15	WRD750:FPWRD750D24 WR51:FBP180	Cu	0.33
WRD110 to WR90	11.0-12.4	76.2/3	110D90WA-76.2	1.15	WRD110:FPWRD110C24WR 90:FBP100	Al	-
WRD110 to WR75	11.0-15.0	76.2/3	110D75WA-76.2	1.15	WRD110:FPWRD110C24 WR75:FBP120	Al	-
WRD110 to WR62	12.4-18.0	63.5/2.5	110D62WA-63.5	1.15	WRD110:FPWRD110C24 WR62:FBP140	Al	-
WRD110 to WR51	15.0-22.0	63.5/2.5	110D51WA-63.5	1.15	WRD110:FPWRD110C24/ FPWRD110C24 WR51:FBP180	Al	-
WRD110 to WR42	18.0-26.5	50.8/2	110D42WA-50.8_Cu	1.15	WRD110:FPWRD110C24 WR42:FBP220	Cu	-
WRD110 to WR34	22.0-26.5	50.8/2	110D34WA-50.8_Cu	1.15	WRD110:FPWRD110C24 WR34:FBP260	Cu	-
WRD180 to WR42	18.0-26.5	50.8/2	180D42WA-50.8_Cu	1.2	WRD180:FPWRD180C24 WR42:FBP220	Cu	0.09
WRD180 to WR34	22.0-33.0	50.8/2	180D34WA-50.8_Cu	1.2	WRD180:FPWRD180C24 WR34:FBP260	Cu	0.08
WRD180 to WR28	26.5-40.0	50.8/2	180D28WA-50.8_Cu	1.2	WRD180:FPWRD180C24 WR28:FBP320	Cu	0.07



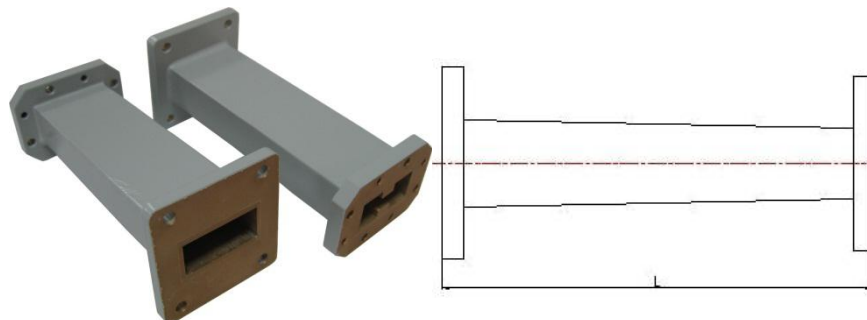
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WG Transition

6. WG Transition - Double Ridge to Rectangular Transition Specials



These precisely machined transitions allow connection of double-ridge waveguides to rectangular waveguides or other ridge guides with low insertion loss and good match. These transitions are most suitable for laboratory set-ups to measure double-ridge components with rectangular waveguide test equipment and vice versa.

The attached table ONLY lists the transition model numbers and lengths for standard non-overlapping bands. For more over-moded transformers, which is available up to the second and third harmonic of the double-ridge fundamental frequency band, please consult A-INFO for details. Other lengths, bands and types may also be requested.

Model Information

Example Part Number: 84D 340 WA -XX

Double Ridge WG Size

WG Size

Product Code

Length

EIA WR	Length (mm/inch)	P/N	Flange	Mat.
WRD84 to WR340	228.6 / 9	84D340WA-228.6	WRD84:FPWRD84D24 WR340:FDP26	Al
WRD84 to WR284	304.8 / 12	84D284WA-304.8	WRD84:FPWRD84D24 WR284:FDP32	Al
WRD84 to WR229	304.8 / 12	84D229WA-304.8	WRD84:FPWRD84D24 WR229:FDP40	Al
WRD84 to WR187	304.8 / 12	84D187WA-304.8	WRD84:FPWRD84D24 WR187:FDP48	Al
WRD84 to WR159	304.8 / 12	84D159WA-304.8	WRD84:FPWRD84D24 WR159:FDP58	Al
WRD84 to WR137	304.8 / 12	84D137WA-304.8	WRD84:FPWRD84D24 WR137:FDP70	Al
WRD200 to WR159	203.2 / 8	200D159WA-203.2	WRD200:FPWRD200D24 WR159:FDP58	Al
WRD200 to WR137	203.2 / 8	200D137WA-203.2	WRD200:FPWRD200D24 WR137:FDP70	Al
WRD200 to WR112	177.8 / 7	200D112WA-177.8	WRD200:FPWRD200D24 WR112:FBP84	Al
WRD200 to WR90	177.8 / 7	200D90WA-177.8	WRD200:FPWRD200D24 WR90:FBP100	Al



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EIA WR	Length (mm/inch)	P/N	Flange	Mat.
WRD200 to WR75	152.4 / 6	200D75WA-152.4	WRD200:FPWRD200D24 WR75:FBP120	Al
WRD200 to WR62	152.4 / 6	200D62WA-152.4	WRD200:FPWRD200D24 WR62:FBP140	Al
WRD250 to WR90	177.8 / 7	250D90WA-177.8	WRD250:FPWRD250D30 WR90:FBP100	Al
WRD250 to WR75	152.4 / 6	250D75WA-152.4	WRD250:FPWRD250D30 WR75:FBP120	Al
WRD250 to WR62	152.4 / 6	250D62WA-152.4	WRD250:FPWRD250D30 WR62:FBP140	Al
WRD250 to WR51	152.4 / 6	250D51WA-152.4	WRD250:FPWRD250D30 WR51:FBP180	Al
WRD350 to WR90	152.4 / 6	350D90WA-152.4	WRD350:FPWRD350D24 WR90:FBP100	Al
WRD350 to WR75	152.4 / 6	350D75WA-152.4	WRD350:FPWRD350D24 WR75:FBP120	Al
WRD350 to WR62	152.4 / 6	350D62WA-152.4	WRD350:FPWRD350D24 WR62:FBP140	Al
WRD350 to WR51	152.4 / 6	350D51WA-152.4	WRD350:FPWRD350D24 WR51:FBP180	Al
WRD350 to WR42	152.4 / 6	350D42WA-152.4	WRD350:FPWRD350D24 WR42:FBP220	Al
WRD350 to WR34	152.4 / 6	350D34WA-152.4	WRD350:FPWRD350D24 WR34:FBP260	Al
WRD475 to WR62	152.4 / 6	475D62WA-152.4	WRD475:FPWRD475D24 WR62:FBP140	Al
WRD475 to WR51	152.4 / 6	475D51WA-152.4	WRD475:FPWRD475D24 WR51:FBP180	Al
WRD475 to WR42	152.4 / 6	475D42WA-152.4	WRD475:FPWRD475D24 WR42:FBP220	Al
WRD475 to WR34	152.4 / 6	475D34WA-152.4	WRD475:FPWRD475D24 WR34:FBP260	Al
WRD475 to WR28	152.4 / 6	475D28WA-152.4	WRD475:FPWRD475D24 WR28:FBP320	Al
WRD580 to WR42	152.4 / 6	580D42WA-152.4	WRD580:FPWRD580D28 WR42:FBP220	Al
WRD580 to WR34	152.4 / 6	580D34WA-152.4	WRD580:FPWRD580D28 WR34:FBP260	Al
WRD580 to WR28	152.4 / 6	580D28WA-152.4	WRD580:FPWRD580D28 WR28:FBP320	Al
WRD650 to WR42	152.4 / 6	650D42WA-152.4	WRD650:FPWRD650D28 WR42:FBP220	Al
WRD650 to WR34	152.4 / 6	650D34WA-152.4	WRD650:FPWRD650D28 WR34:FBP260	Al
WRD650 to WR28	152.4 / 6	650D28WA-152.4	WRD650:FPWRD650D28 WR28:FBP320	Al
WRD750 to WR42	152.4 / 6	750D42WA-152.4	WRD750:FPWRD750D24 WR42:FBP220	Al
WRD750 to WR34	152.4 / 6	750D34WA-152.4	WRD750:FPWRD750D24 WR34:FBP260	Al
WRD750 to WR28	152.4 / 6	750D28WA-152.4	WRD750:FPWRD750D24 WR28:FBP320	Al
WRD110 to WR28	50.8 / 2	110D28WA-50.8_Cu	WRD110:FPWRD110C24 WR28:FBP320	Cu



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WG Transition

7. WG Transition - Double Ridge to Double Ridge



Model Information

Example Part Number: 250D 350D WA -XX

Double Ridge WG Size

WG Size

Product Code

Length

EIA WR	Freq.(GHz)	Length (mm/inch)	P/N	VSWR	Flange	Mat.
WRD250 to WRD350	3.5-7.8	203.2/8	250D350DWA-203.2	1.15	WRD250:FPWRD250D30 WRD350:FPWRD350D24	Al
WRD475 to WRD580	5.8-11.0	165.1/6.5	475D580DWA-165.1	1.15	WRD475:FPWRD475D24 WRD580:FPWRD580D28	Al
WRD475 to WRD650	6.5-11.0	165.1/6.5	475D650DWA-165.1	1.15	WRD475:FPWRD475D24 WRD650:FPWRD650D28	Al
WRD475 to WRD750	7.5-11.0	165.1/6.5	475D750DWA-165.1	1.15	WRD475:FPWRD475D24 WRD750:FPWRD750D24	Al
WRD580 to WRD650	6.5-16.0	152.4/6	580D650DWA-152.4	1.15	WRD580:FPWRD580D28 WRD650:FPWRD650D28	Al
WRD580 to WRD750	7.5-16.0	152.4/6	580D750DWA-152.4	1.15	WRD580:FPWRD580D28 WRD750:FPWRD750D24	Al
WRD650 to WRD750	7.5-18.0	152.4/6	650D750DWA-152.4	1.15	WRD650:FPWRD650D28 WRD750:FPWRD750D24	Cu/Al



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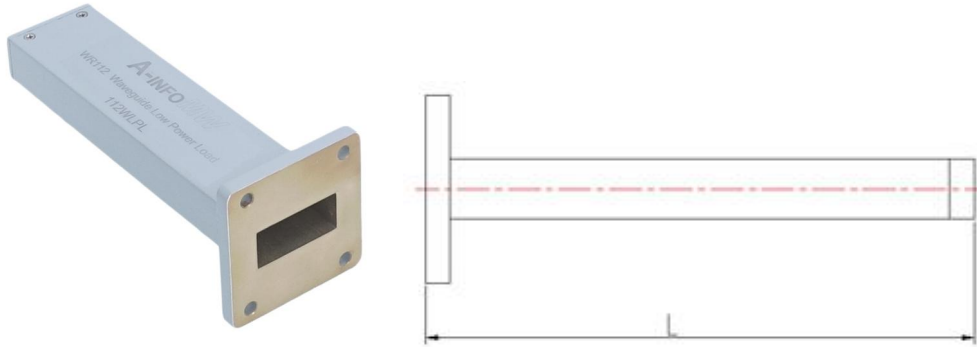
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WG Load

WG Load

1. WG Load - Precision & Low Power



The WPL series low power waveguide fixed terminations are precision, low VSWR terminations suited to a wide variety of precision laboratory applications. They can be used for full band one-port calibration and full two-port, isolation calibration. A-INFO Precision Flange(APF) is available for this series.

The WLPL series are for General Version, low VSWR terminations for system application.

1. General Version

EIA WR	Freq. (GHz)	P/N	VSWR Max.	Avg. Power (W)	Peak Power (KW)	Length (mm/inch)	Flange	Mat.
WR975	0.75-1.12	975WLPL	1.1	25	25	900 / 35.4	FDP9	Al
WR770	0.96-1.45	770WLPL	1.1	25	25	900 / 35.4	FDP12	Al
WR650	1.12-1.70	650WLPL	1.08	25	25	495 / 19.5	FDP14/FDM14	Al
WR510	1.45-2.20	510WLPL	1.06	25	25	435 / 17.1	FDP18/FDM18	Al
WR430	1.70-2.60	430WLPL	1.05	15	15	376 / 14.8	FDP22/APF430 /FDM22	Al
WR340	2.20-3.30	340WLPL	1.05	12	12	320 / 12.6	FDP26/APF340/ FDM26	Al
WR284	2.60-3.95	284WLPL	1.05	10	10	264 / 10.4	FDP32/FAP32/ FAE32/APF284B/ APF284/FDM32	Al
WR229	3.30-4.90	229WLPL	1.05	10	10	188 / 7.4	FDP40/APF229/ FAP40/FAE40/ FDM40	Al
WR187	3.95-5.85	187WLPL	1.04	8	8	163 / 6.4	FDP48/FAP48/ FAE48/APF187/ FDM48	Al
WR159	4.90-7.05	159WLPL	1.04	7	7	147 / 5.8	FDP58/FAP58/ APF159/FAE58/ FDM58	Al
WR137	5.85-8.20	137WLPL	1.04	6	6	132 / 5.2	FDP70/FAP70/ APF137/FAE70/ FDM70	Al
WR112	7.05-10.0	112WLPL	1.03	4	4	127 / 5	FBP84/FBM84/ FBE84/FDP84/ FDM84FEP84/ APF112B	Al



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WG Load

EIA WR	Freq. (GHz)	P/N	VSWR Max.	Avg. Power (W)	Peak Power (KW)	Length (mm/inch)	Flange	Mat.
WR90	8.20-12.4	90WLPL	1.03	4	4	127 / 5	FBP100/APF90B/ FBM100/FBE100/ FDP100/FDM100/ FEP100	Al
WR75	10.0-15.0	75WLPL	1.04	2	2	127 / 5	FBP120/APF75A/ APF75B/FBM120/ FDP120/FDM120	Al
WR62	12.4-18.0	62WLPL	1.04	1.5	1.5	102 / 4	FBP140/APF62/ FBM140/FBE140/ FDP140/FDM140	Al
WR51	15.0-22.0	51WLPL_Cu	1.05	1	1	79 / 3.1	FBP180/APF51C/ APF51A/FBM180	Cu
WR42	18.0-26.5	42WLPL_Cu	1.05	0.5	0.5	71 / 2.8	FBP220/APF42/ FBM220	Cu
WR34	22.0-33.0	34WLPL_Cu	1.05	0.5	0.5	63.5 / 2.5	FBP260/APF34/ FBM260	Cu
WR28	26.5-40.0	28WLPL_Cu	1.05	0.5	0.5	56 / 2.2	FBP320/APF28/ FBM320	Cu
WR22	33.0-50.0	22WLPL_Cu	1.08	0.5	0.5	41 / 1.6	FUGP400/APF22	Cu
WR19	40.0-60.0	19WLPL_Cu	1.06	0.3	0.3	41 / 1.6	FUGP500/APF19	Cu
WR15	50.0-75.0	15WLPL_Cu	1.08	0.3	0.1	38 / 1.5	FUGP620/APF15	Cu
WR12	60.0-90.0	12WLPL_Cu	1.08	0.2	0.03	38 / 1.5	FUGP740/APF12	Cu
WR10	75.0-110.0	10WLPL_Cu	1.08	0.2	0.03	38 / 1.5	FUGP900/APF10	Cu



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WG Load

2. Precision Version

EIA WR	Freq. (GHz)	P/N	VSWR Max.	Avg. Power (W)	Peak Power (KW)	Length (mm/inch)	Flange	Mat.
WR975	0.75-1.12	975WPL	1.05	25	25	900/35.4	FDP9	Al
WR770	0.96-1.45	770WPL	1.05	25	25	900/35.4	FDP12	Al
WR650	1.12-1.70	650WPL	1.04	25	25	495/19.5	FDP14/FDM14	Al
WR510	1.45-2.20	510WPL	1.03	25	25	435/17.1	FDP18/FDM18	Al
WR430	1.70-2.60	430WPL	1.025	15	15	376/14.8	FDP22/FDM22 /APF430	Al
WR340	2.20-3.30	340WPL	1.025	12	12	320/12.6	FDP26/FDM26/ APF340	Al
WR284	2.60-3.95	284WPL	1.025	10	10	264/10.4	FDP32/FDM32 /FAP32/FAE32 /APF284B/APF284	Al
WR229	3.30-4.90	229WPL	1.02	10	10	188/7.4	FDP40 /FDM48/FAP40 /FAE40/APF229	Al
WR187	3.95-5.85	187WPL	1.02	8	8	163/6.4	FDP48 /FDM48/FAP48 /FAE48/APF187	Al
WR187	3.95-5.85	187WPL_Cu_P0	1.02	8	8	163/6.4	APF187	Cu
WR159	4.90-7.05	159WPL	1.02	7	7	147/5.8	FDP58 /FDM58/FAP58 /FAE58/APF159	Al
WR137	5.85-8.20	137WPL	1.02	6	6	132/5.2	FDP70/ FDM70/FAP70/ FAE70/APF137	Al
WR112	7.05-10.0	112WPL	1.015	4	4	127/5	FBP84/FDP84 /FBE84/FBM84 /FDM84/FEP84 /APF112B	Al
WR90	8.20-12.4	90WPL	1.015	4	4	127/5	APF90B/FBP100 /FBM100/FBE100/ FDP100/FDM100 /FEP100	Al
WR75	10.0-15.0	75WPL	1.02	2	2	127/5	FBP120/FDP120/ FBM120/FDM120 APF75B/APF75A	Al
WR62	12.4-18.0	62WPL	1.02	2	2	102/4	FBP140/APF62 /FBM140/FBE140 /FDP140/FDM140	Al
WR51	15.0-22.0	51WPL_Cu	1.025	1	1	79/3.1	FBP180/FDM180 APF51C/ APF51A	Cu
WR42	18.0-26.5	42WPL_Cu	1.025	0.5	0.5	71/2.8	FBP220/FBM220/ APF42	Cu
WR34	22.0-33.0	34WPL_Cu	1.025	0.5	0.5	63.5/2.5	FBP260FBM260/ APF34	Cu
WR28	26.5-40.0	28WPL_Cu_P0	1.025	0.5	0.5	56/2.2	APF28	Cu
		28WPL_Cu_BM					FBM320	
WR22	33.0-50.0	22WPL_Cu	1.04	0.5	0.5	41/1.6	APF22/FUGP400	Cu
WR19	40.0-60.0	19WPL_Cu	1.03	0.3	0.3	41/1.6	APF19/FUGP500	Cu
WR15	50.0-75.0	15WPL_Cu	1.04	0.3	0.1	38/1.5	APF15	Cu
					0.3		FUGP620	
WR12	60.0-90.0	12WPL_Cu	1.05	0.2	0.03	38/1.5	APF12/FUGP740	Cu
WR10	75.0-110.0	10WPL_Cu	1.05	0.2	0.03	38/1.5	APF12/FUGP900	Cu



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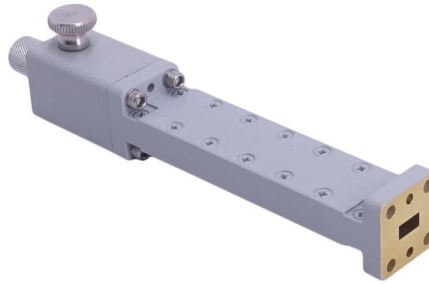
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WG Load

2. WG Load – Sliding

Waveguide Sliding Load suitable for waveguide calibration Purpose, low VSWR, small power, up to 110GHz.



The WSL series waveguide sliding terminations are precision, low VSWR terminations suited to a wide variety of precision laboratory applications. They can be used for full band one-port calibration and full two-port, isolation calibration. The effect of sliding the termination can get a greater accuracy than that achieved by a fixed load. A-INFO Precision Flange(APF) is recommended for this series.

EIA WR	Freq.(GHz)	P/N	VSWR Max.	Avg. Power (W)	Peak Power (KW)	Flange	Mat.
WR650	1.12-1.70	650WSL	1.04	25	25	FDP14/FDM14	Al
WR510	1.45-2.20	510WSL	1.03	25	25	FDP18/FDM18	Al
WR430	1.70-2.60	430WSL	1.025	15	15	FDP22/APF430/FDM22	Al
WR340	2.20-3.30	340WSL	1.025	12	12	FDP26/APF340/FDM26	Al
WR284	2.60-3.95	284WSL	1.025	10	10	FDP32/APF284B/APF284/FAP32/FAE32/FDM32	Al
WR229	3.30-4.90	229WSL	1.02	10	10	FDP40/FAP40/FAE40/FDM40/APF229	Al
WR187	3.95-5.85	187WSL	1.02	8	8	FDP48/FAP48/FAE48/APF187/FDM48	Al
WR159	4.90-7.05	159WSL	1.02	7	7	FDP58/FAP58/FAE58/APF159/FDM58	Al
WR137	5.85-8.20	137WSL	1.02	6	6	FDP70/FAP70/FAE70/APF137/FDM70	Al
WR112	7.05-10.0	112WSL	1.015	4	4	FBP84/FBM84/FBE84/FDP84/FDM84/FEP84/APF112B	Al
WR90	8.20-12.4	90WSL	1.015	4	4	FBP100/APF90B/FBM100/FBE100/FDP100/FDM100/FEP100	Al
WR75	10.0-15.0	75WSL	1.02	2	2	FBP120/FDP120/APF75B/APF75A/FBM120/FDM120	Al
WR62	12.4-18.0	62WSL	1.02	1.5	1.5	FBP140/FDP140/APF62/FBM140/FBE140/FDM140	Al
WR51	15.0-22.0	51WSL_Cu	1.025	1.0	1.0	FBP180/APF51A/FBM180/APF51C	Cu
WR42	18.0-26.5	42WSL_Cu	1.025	0.5	0.5	FBP220/APF42/FBM220	Cu
WR34	22.0-33.0	34WSL_Cu	1.025	0.5	0.5	FBP260/APF34/FBM260	Cu
WR28	26.5-40.0	28WSL_Cu	1.025	0.5	0.5	FBP320/APF28/FBM320	Cu
WR22	33.0-50.0	22WSL_Cu	1.03	0.5	0.5	FUGP400/APF22	Cu
WR19	40.0-60.0	19WSL_Cu	1.04	0.3	0.3	FUGP500/APF19	Cu
WR15	50.0-75.0	15WSL_Cu	1.05	0.3	0.1	FUGP620/APF15	Cu
WR12	60.0-90.0	12WSL_Cu	1.06	0.2	0.03	FUGP740/APF12	Cu
WR10	75.0-110.0	10WSL_Cu	1.06	0.2	0.03	FUGP900/APF10	Cu



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WG Load

3. WG Load - Low-Medium Power



WMPL series Low-Medium Power Terminations are convection-cooled, designed to handle low to medium power levels. Those terminations utilizes Medium Power Absorber Elements to achieve low VSWR and stable electrical characteristics. Features include low VSWR and light weight. Typical applications include system or test bench set-ups and as small moderate power dummy loads.

EIA WR	Freq.(GHz)	P/N	VSWR Max.	Avg. Power (W)	Peak Power (KW)	Length (mm/inch)	Flange	Mat.
WR650	1.12-1.70	650WMPL80	1.2	80	400	-	FDP14/FDM14	Al
WR510	1.45-2.20	510WMPL70	1.2	70	400	-	FDP18/FDM18	Al
WR430	1.70-2.60	430WMPL60	1.15	60	400	-	FDP22/FDM22	Al
WR340	2.20-3.30	340WMPL60	1.15	60	400	-	FDP26/FDM26	Al
WR284	2.60-3.95	284WMPL45	1.1	45	400	264 / 10.4	FDP32/FDM32/ FAP32/FAE32	Al
WR284	2.60-3.95	284WMPL200	1.15	200	-	-	FDP32	Al
WR284	2.60-3.95	284WMPL600	1.15	600	800	457.2/18.0	FDP32	Al
WR229	3.30-4.90	229WMPL40	1.1	40	400	-	FDP40/FDM40/ FAE40/FAP40	Al
WR187	3.95-5.85	187WMPL40	1.1	40	350	163 / 6.4	FDP48/FDM48/ FAP48/FAE48	Al
WR159	4.90-7.05	159WMPL30	1.1	30	300	147 / 5.8	FDP58/FDM58/ FAP58/FAE58	Al
WR137	5.85-8.20	137WMPL25	1.1	25	200	132 / 5.2	FDP70/FDM70/ FAP70/FAE70	Al
WR137	5.85-8.20	137WMPL200	1.15	200	400	279.4/11	FDP70/FAP70/ FAE70/FDM70/ FEP70	Al
WR112	7.05-10.0	112WMPL25	1.1	25	200	127/5	FBP84/FBM84/ FBE84/FDP84/ FDM84/FEP84	Al

WG Load

EIA WR	Freq.(GHz)	P/N	VSWR Max.	Avg. Power (W)	Peak Power (KW)	Length (mm/inch)	Flange	Mat.
WR90	8.20-12.4	90WMPL25	1.1	25	110	123 / 4.84	FBP100/FBM100/ APF90B/FBE100/ FDP100/FDM100/ FEP100	Al
WR90	8.20-12.4	90WMPL50	1.1	50	110	121 / 4.76 123 / 4.8	FBP100/FBM100/ APF90B/FBE100/ /FDP100/FDM100/ FEP100	Al
WR75	10.0-15.0	75WMPL25	1.1	25	100	120 / 4.72 123 / 4.8	FBP120/FBM120 APF75A/FDP120 /FDM120	Al
WR75	10.0-15.0	75WMPL100	1.15	100	200	127 / 5	FBP120	Al
WR62	12.4-18.0	62WMPL15	1.1	15	100	129 / 5.1	FBP140/FBM140/ APF62/FBE140/ FDP140/FDM140	Al
WR51	15.0-22.0	51WMPL15_Cu	1.1	15	60	79 / 3.1	FBP180/FBM180/ APF51A/APF51C	Cu
WR42	18.0-26.5	42WMPL15_Cu	1.1	15	60	71 / 2.8	FBP220/FBM220/ APF42	Cu
WR34	22.0-33.0	34WMPL10_Cu	1.1	10	40	63.5 / 2.5	FBM260/FBP260/ APF34	Cu
WR28	26.5-40.0	28WMPL10_Cu	1.1	10	25	74 / 2.9	FBP320/FBM320/ APF28	Cu
WR22	33.0-50.0	22WMPL5_Cu	1.15	5	10	41 / 1.6	FUGP400/APF22	Cu
WR19	40.0-60.0	19WMPL3_Cu	1.15	3	6	41 / 1.6	FUGP500/APF19	Cu
WR15	50.0-75.0	15WMPL3_Cu	1.2	3	6	38 / 1.5	FUGP620/APF15	Cu
WR12	60.0-90.0	12WMPL2_Cu	1.2	2	4	38 / 1.5	FUGP740/APF12	Cu
WR10	75.0-110.0	10WMPL2_Cu	1.2	2	4	38 / 1.5	FUGP900/APF10	Cu



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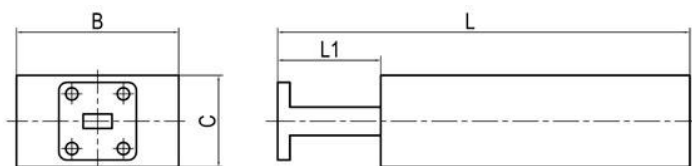
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WG Load

4. WG Load - Medium Power



WMPL series Medium Power Terminations are convection-cooled, designed to handle medium power levels. Those terminations utilizes High Power Absorber Elements fired at 800 C to achieve low VSWR and stable electrical characteristics. Features include low VSWR and light weight. Typical applications include system or test bench set-ups and as moderate power dummy loads.

EIA WR	Freq. (GHz)	P/N	VSWR Max.	Avg. Power (W)	Peak Power (KW)	L (mm)	Flange	Mat.
WR650	1.12-1.70	650WMPL1500	1.2	1500	800	660.4	FDP14/FDM14	Al
WR510	1.45-2.20	510WMPL1300	1.2	1300	800	609.6	FDP18/FDM18	Al
WR430	1.70-2.60	430WMPL1200	1.2	1200	800	558.8	FDP22/FDM22/ APF430	Al
WR340	2.20-3.30	340WMPL1200	1.2	1200	800	508	FDP26/FDM26/APF340	Al
WR284	2.60-3.95	284WMPL1200	1.15	1200	800	457.2	FDP32/FDM32/FAP32 /FAE32/APF284B/APF284	Al
WR229	3.30-4.90	229WMPL1000	1.15	1000	800	304.8	FDP40/FDM40/FAP40/ /FAE40/APF229	Al
WR187	3.95-5.85	187WMPL750	1.15	750	750	279.4	FDP48/FDM48/FAP48/ FAE48/APF187	Al
WR159	4.90-7.05	159WMPL625	1.15	625	625	279.4	FDP58/FAE58/FAP58 /APF159/FDM58	Al
WR137	5.85-8.20	137WMPL500	1.15	500	400	279.4	FDP70/FDM70/FAP70/ FAE70/FEP70/APF137	Al
WR112	7.05-10.0	112WMPL425	1.15	425	400	279.4	FBP84/FBM84/FBE84 /FDP84/FDM84/FEP84/ APF112B	Al



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EIA WR	Freq. (GHz)	P/N	VSWR Max.	Avg. Power (W)	Peak Power (KW)	L (mm)	Flange	Mat.
WR90	8.20-12.4	90WMPL225	1.15	225	225	139.7	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100/ APF90B	Al
WR75	10.0-15.0	75WMPL200	1.15	200	200	127	FBP120/FBM120/ FDP120/FDM120 / APF75A	Al
WR62	12.4-18.0	62WMPL100	1.15	100	200	114.3	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
WR51	15.0-22.0	51WMPL100	1.15	100	120	114.3	FBP180/FBM180/ APF51C/APF51A	Al
WR42	18.0-26.5	42WMPL100	1.2	100	120	114.3	FBP220/FBM220/ APF42	Al
WR34	22.0-33.0	34WMPL75	1.2	75	80	101.6	FBP260/FBM260	Al
WR28	26.5-40.0	28WMPL75	1.2	75	50	101.6	FBP320/FBM320	Al
WR22	33.0-50.0	22WMPL50	1.2	50	30	170.2	FUGP400	Al
WR19	40.0-60.0	19WMPL45	1.2	45	25	177.8	FUGP500	Al
WR15	50.0-75.0	15WMPL35	1.2	35	25	151.6	FUGP620	Al
WR12	60.0-90.0	12WMPL30	1.2	30	20	157.5	FUGP740	Al
WR10	75.0-110.0	10WMPL25	1.2	25	15	157.5	FUGP900	Al
WR6	110.0-170.0	6WMPL15	1.4	15	8	187.5	UG-387/U-M	Al
WR4	170.0-260.0	4WMPL8	1.8	8	5	212.9	UG-387/U-M	Al



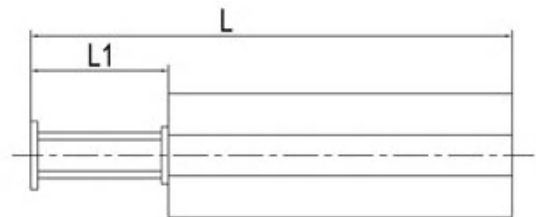
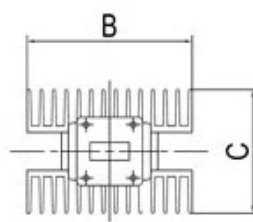
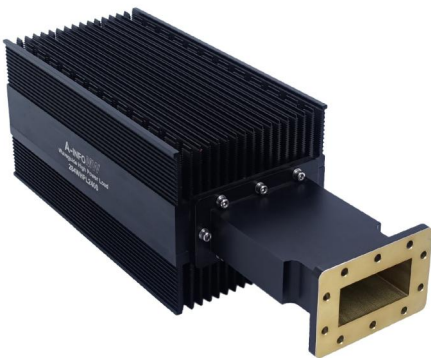
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WG Load

5. WG Load - High Power



A-INFO WHPL High Power Terminations utilizes High Power Absorber Elements fired at 800 C to achieve low VSWR and stable electrical characteristics.

These terminations are ideal for use in high power systems as dummy antennas to permit testing, tuning , and maintenance without radiating RF power.

EIA WR	Freq.(GHz)	P/N	VSWR Max.	Avg. Power (W)	Peak Power (KW)	L (mm)	Flange	Mat.
WR650	1.12-1.70	650WHPL2500	1.2	2500	800	660.4	FDP14/FDM14	Al
		650WHPL3000_DM	1.2	3000	-	-	FDM14	
		650WHPL5500	1.2	5500	5500	978.6	FDP14/FDM14	
		650WHPL5500F	1.2	5500	5500	977.2		
		650WHPL8000	1.2	8000	5500	850.9		
WR510	1.45-2.20	510WHPL2500	1.2	2500	800	609.6	FDP18/FDM18	Al
		510WHPL5000	1.15	5000	4500	749.3		
		510WHPL7000	1.15	7000	4500	749.3		
WR430	1.70-2.60	430WHPL2500	1.2	2500	800	558.8	FDP22/FDM22	Al
		430WHPL4500	1.15	4500	4000	700		
		430WHPL6500	1.15	6500	4000	700		
WR340	2.20-3.30	340WHPL2500	1.2	2500	800	508	FDP26/FDM26	Al
		340WHPL4000	1.15	4000	3500	675.1		
		340WHPL5500	1.15	5500	3500	678		
WR284	2.60-3.95	284WHPL2400	1.15	2400	800	457.2	FDP32/FAP32/ FAE32/FDM32	Al
		284WHPL3500	1.1	3500	3200	610		
						623.4		
		284WHPL5000	1.1	5000	3200	610		
						623		
		284WHPL5000F	1.2	5000	3200	683		



WG Load

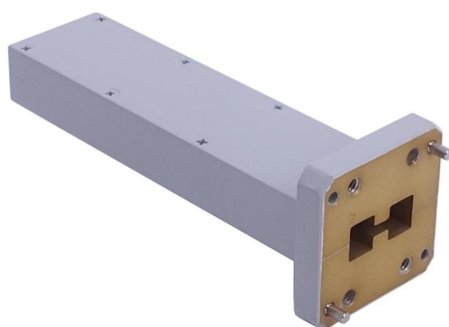
EIA WR	Freq.(GHz)	P/N	VSWR Max.	Avg. Power (W)	Peak Power (KW)	L (mm)	Flange	Mat.
WR229	3.30-4.90	229WHPL2000	1.15	2000	800	304.8	FDP40/FDM40/ FAP40/FAE40	Al
		229WHPL3000	1.1	3000	2000	457.2		
		229WHPL4000	1.1	4000	2000	457.2		
WR187	3.95-5.85	187WHPL1500	1.15	1500	750	279.4	FDP48/FDM48/ FAP48/FAE48	Al
		187WHPL2000	1.1	2000	2000	457.2		
		187WHPL3000	1.1	3000	2000	457.2		
WR159	4.90-7.05	159WHPL1300	1.15	1300	625	279.4	FDP58/FAE58 FAP58/FDM58	Al
		159WHPL2000	1.1	2000	1000	457.2		
		159WHPL3000	1.1	3000	1000	457.2		
WR137	5.85-8.20	137WHPL1000	1.15	1000	400	279.4	FDP70/FAP70/ FAE70/FDM70	Al
		137WHPL1500	1.1	1500	400	457.2		
		137WHPL2000	1.1	2000	710	457.2		
		137WHPL3000	1.1	3000	710	457.2		
WR112	7.05-10.0	112WHPL850	1.15	850	400	279.4	FBP84/FBM84/ FBE84/FDP84/ FDM84/FEP84	Al
		112WHPL1500	1.1	1500	400	350		
		112WHPL2000	1.1	2000	460	350		
		112WHPL3000	1.15	3000	550	546.1		
WR90	8.20-12.4	90WHPL500	1.15	500	225	139.7	FBP100/FBM100/ FBE100/FDP100/ FDM100/FEP100	Al
		90WHPL750	1.15	750	225	139.7		
		90WHPL1100	1.1	1100	290	355.6		
		90WHPL1700	1.1	1700	290	355.6		
		90WHPL4500	1.15	4500	450	660.4		
WR75	10.0-15.0	75WHPL350	1.15	350	200	127	FBP120/FBM120/ FDP120/FDM120/ APF75B/APF75A	Al
		75WHPL550	1.15	550	200	127		
		75WHPL1000	1.1	1000	200	355.6		
		75WHPL1500	1.1	1500	250	355.6		
		75WHPL3500	1.15	3500	270	660.4		
WR62	12.4-18.0	62WHPL300	1.15	300	200	114.3	FBP140/FBM140/ FBE140/FDP140/ FDM140/APF62	Al
		62WHPL800	1.1	800	200	203.2		
		62WHPL1400	1.1	1400	200	203.2		
		62WHPL3000	1.15	3000	200	660.4		

WG Load

EIA WR	Freq.(GHz)	P/N	VSWR Max.	Avg. Power (W)	Peak Power (KW)	L (mm)	Flange	Mat.
WR51	15.0-22.0	51WHPL260	1.15	260	120	114.3	FBP180/FBM180/ APF51C/ APF51A	Al
		51WHPL700	1.1	700	150	203.2		
		51WHPL1200	1.1	1200	150	203.2		
WR42	18.0-26.5	42WHPL230	1.2	230	120	114.3	FBP220/FBM220/ APF42	Al
		42WHPL600	1.15	600	120	177.8		
		42WHPL1000	1.15	1000	120	177.8		
WR34	22.0-33.0	34WHPL150	1.2	150	80	101.6	FBP260/FBM260/ APF34	Al
		34WHPL400	1.2	400	100	177.8		
		34WHPL700	1.2	700	100	177.8		
WR28	26.5-40.0	28WHPL125	1.2	125	50	101.6	FBP320/FBM320/ APF28	Al
		28WHPL300	1.2	300	100	177.8		
		28WHPL500	1.2	500	100	177.8		
		28WHPL1000	1.25	1000	100	558.8		
WR22	33.0-50.0	22WHPL115	1.2	115	30	170.2	FUGP40/APF22	Al
		22WHPL300	1.2	300	60	233.7		
		22WHPL500	1.2	500	60	233.7		
WR19	40.0-60.0	19WHPL100	1.2	100	25	177.8	FUGP500/APF19	Al
		19WHPL250	1.2	250	50	241.3		
		19WHPL400	1.2	400	50	241.3		
WR15	50.0-75.0	15WHPL60	1.2	60	25	151.6	FUGP620/APF15	Al
		15WHPL100	1.2	100	50	227.8		
		15WHPL150	1.2	150	50	227.8		
		15WHPL200	1.2	200	60	227.8		
		15WHPL250	1.2	250	50	227.8		
WR12	60.0-90.0	12WHPL50	1.2	50	20	157.5	FUGP740/APF12	Al
		12WHPL120	1.2	120	40	233.7		
		12WHPL200	1.2	200	40	233.7		
WR10	75.0-110.0	10WHPL40	1.2	40	15	157.5	FUGP900/APF10	Al
		10WHPL100	1.2	100	30	233.7		
		10WHPL150	1.2	150	30	233.7		
		10WHPL200	1.2	200	30	261.6		

WG Load

6. WG Load - Double Ridge Low Power



EIA WRD	Freq.(GHz)	P/N	VSWR Max.	Avg. Power (W)	Length (mm/inch)	Flange	Mat.
WRD200	2.0-4.8	200DRWLPL	1.1	10	304.8/12	FPWRD200D24	Al
WRD250	2.6-7.8	250DRWLPL	1.1	10	279.4/11	FPWRD250D30	Al
WRD350	3.5-8.2	350DRWLPL	1.1	5	266.7/10.5	FPWRD350D24	Al
WRD475	4.75-11.0	475DRWLPL	1.1	5	215.9/8.5	FPWRD475D24	Al
WRD580	5.8-16.0	580DRWLPL	1.1	5	177.8/7	FPWRD580D28	Al
WRD650	6.5-18.0	650DRWLPL	1.1	5	101.6/4	FPWRD650D28	Al
WRD750	7.5-18.0	750DRWLPL	1.1	5	101.6/4	FPWRD750D24	Al
WRD110	11.0-26.5	110DRWLPL_Cu	1.15	3	76.2/3	FPWRD110C24	Cu
WRD180	18.0-40.0	180DRWLPL_Cu	1.15	3	55.9/2.2	FPWRD180C24	Cu



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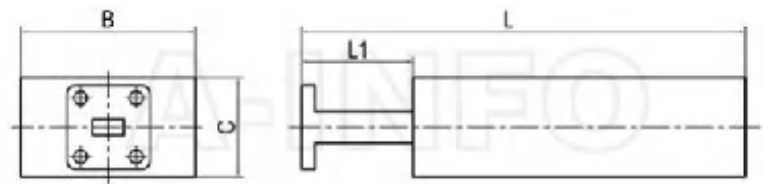
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WG Load

WG Load - Double Ridge Medium Power

7.



	Freq.(GHz)	P/N	VSWR	Avg. P. (W)	L (mm)	Flange	Mat.
RD180	18.0-40.0	180DRWMPL80	1.20	80	279.4	FPWRD180C24	Al
RD650	6.5-18.0	650DRWMPL250	1.25	250	304.8	FPWRD650D28	Al
WRD750	7.5-18.0	750DRWMPL250	1.25	250	304.8	FPWRD750D24	Al
W							
W							



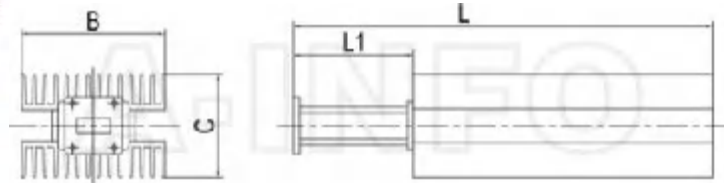
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WG Load

8. WG Load - Double Ridge High Power



EIA WRD	Freq.(GHz)	P/N	VSWR	Avg. P. (W)	L (mm)	Flange	Mat.
WRD180	18.0-40.0	180DRWHPL125	1.20	125	279.4	FPWRD180C24	Al
WRD180	18.0-40.0	180DRWHPL250	1.30	250	279.4	FPWRD180C24	Al
WRD200	2.0-4.8	200DRWHPL5500	1.25	5500	927.1	FPWRD200D24	Al
WRD650	6.5-18.0	650DRWHPL400	1.25	400	304.8	FPWRD650D28	Al
WRD650	6.5-18.0	650DRWHPL500	1.25	500	304.8	FPWRD650D28	Al
WRD650	6.5-18.0	650DRWHPL700	1.25	700	304.8	FPWRD650D28	Al
WRD750	7.5-18.0	750DRWHPL400	1.25	400	304.8	FPWRD750D24	Al
WRD750	7.5-18.0	750DRWHPL700	1.25	700	304.8	FPWRD750D24	Al

WG Switch

WG Switch

1. WG Switch-Rectangular, SPDT/DPDT



Features

Frequency: 2.60 to 110GHz

E-plane & H-plane Available

SPDT & DPDT Available

Position Indicator

Isolation: 60dB Min., 80dB Available, Full Band

International Standard 6-pin Circular Connector for Power and Cont

Common Specification	
DC Power Supply(V)	27 ± 3
Current(A)	1.0 Max.
Note: For WR284 models, current is 2.0A Max.	
Operating Temperature(°C)	-55 ~ +85

High Isolation Version is also available. Pls. ask.

E-Plane

EIA WR	Freq.(GHz)	P/N	Switch	VSWR	I. L. (dB)	Iso. (dB)	S. T. (ms)	Flange	Mat.
WR284	2.60-3.95	284WESMD	SPDT Latching	1.1	0.1	60	110	FDP32	Al
		284WDESMD	DPDT Latching						
WR229	3.30-4.90	229WESMD	SPDT Latching	1.1	0.1	60	110	FDP40	Al
		229WDESMD	DPDT Latching						

WG Switch

EIA WR	Freq.(GHz)	P/N	Switch	VSWR	I. L. (dB)	Iso. (dB)	S. T. (ms)	Flange	Mat.
WR187	3.95-5.85	187WESMD	SPDT Latching	1.1	0.1	60	110	FDP48	Al
		187WDESMD	DPDT Latching						
WR159	4.90-7.05	159WESMD	SPDT Latching	1.1	0.1	60	110	FDP58	Al
		159WDESMD	DPDT Latching						
WR137	5.85-8.20	137WESMD	SPDT Latching	1.1	0.1	60	110	FDP70	Al
		137WDESMD	DPDT Latching						
WR112	7.05-10.0	112WESMD	SPDT Latching	1.1	0.1	60	110	FBP84	Al
		112WDESMD	DPDT Latching						
WR90	8.20-12.4	90WESMD	SPDT Latching	1.1	0.1	60	110	FBP100	Al
		90WDESMD	DPDT Latching						
WR90	8.20-12.4	90WDESMDH	DPDT Latching	1.2	0.5	80	110	FBP100	Al
WR75	10.0-15.0	75WESMD	SPDT Latching	1.1	0.1	60	110	FBP120	Al
		75WDESMD	DPDT Latching						
WR62	12.4-18.0	62WESMD	SPDT Latching	1.1	0.1	60	110	FBP140	Al
		62WDESMD	DPDT Latching						
WR51	15.0-22.0	51WESMD	SPDT Latching	1.1	0.1	60	110	FBP180	Al
		51WDESMD	DPDT Latching						
WR42	18.0-26.5	42WESMD	SPDT Latching	1.15	0.15	60	110	FBP220	Al
		42WDESMD	DPDT Latching						
WR34	22.0-33.0	34WESMD	SPDT Latching	1.2	0.2	60	110	FBP260	Al
		34WDESMD	DPDT Latching						
WR28	26.5-40.0	28WESMD	SPDT Latching	1.2	0.2	60	110	FBP320	Al
		28WDESMD	DPDT Latching						



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WG Switch

H-Plane

EIA WR	Freq.(GHz)	P/N	Switch	VSWR	I. L. (dB)	Iso. (dB)	S. T. (ms)	Flange	Mat.
WR112	7.05-10.0	112WHSMD	SPDT Latching	1.1	0.2	60	110	FBP84	Al
WR90	8.20-12.4	90WHSMD	SPDT Latching	1.1	0.2	60	110	FBP100	Al
WR75	10.0-15.0	75WHSMD	SPDT Latching	1.1	0.2	60	110	FBP120	Al
WR62	12.4-18.0	62WHSMD	SPDT Latching	1.1	0.2	60	110	FBP140	Al
WR51	15.0-22.0	51WHSMD	SPDT Latching	1.1	0.3	60	110	FBP180	Al
WR42	18.0-26.5	42WHSMD	SPDT Latching	1.15	0.4	60	110	FBP220	Al
		42WDHSMD	DPDT Latching						
WR34	22.0-33.0	34WHSMD	SPDT Latching	1.2	0.4	60	110	FBP260	Al
		34WDHSMD	DPDT Latching						
WR28	26.5-40.0	28WHSMD	SPDT Latching	1.2	0.4	60	110	FBP320	Al
		28WDHSMD	DPDT Latching						
WR22	33.0-50.0	22WHSMD	SPDT Latching	1.2	0.5	60	110	FUGP400	Cu
		22WDHSMD	DPDT Latching						
WR19	40.0-60.0	19WHSMD	SPDT Latching	1.2	0.5	60	110	FUGP500	Cu
		19WDHSMD	DPDT Latching						
WR15	50.0-75.0	15WHSMD	SPDT Latching	1.2	0.6	60	110	FUGP620	Cu
		15WDHSMD	DPDT Latching						
WR12	60.0-90.0	12WHSMD	SPDT Latching	1.2	0.7	60	110	FUGP740	Cu
		12WDHSMD	DPDT Latching						
WR10	75.0-110.0	10WHSMD	SPDT Latching	1.2	0.8	60	110	FUGP900	Cu
		10WDHSMD	DPDT Latching						



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WG Switch

2. WG Switch-Double Ridge, SPDT/DPDT



Features

Frequency: 4.75 to 40GHz
 E-plane & H-plane Available
 SPDT & DPDT Available
 Position Indicator
 Isolation: 60dB Min., 80dB Available, Full Band
 International Standard 6-pin Circular Connector for Power and Control

Common Specification	
DC Power Supply(V)	27 ± 3
Current(A)	1.0 Max.
Operating Temperature(°C)	-55 ~ +85

High Isolation Version is also available. Pls. ask.

E-Plane

EIA WRD	Freq.(GHz)	P/N	Switch	VSWR	I. L. (dB)	Iso. (dB)	S. T. (ms)	Flange	Mat.
WRD200	2.0-8.0	200DRWESMD	SPDT Latching	-	-	60	110	FPWRD200D24	Al
WRD250	4.75-11.0	250DRWESMD	SPDT Latching	-	-	60	110	FPWRD250D24	Al
WRD350	3.50-8.20	350DRWESMD	SPDT Latching	-	-	60	110	FPWRD350D24	Al
WRD475	4.75-11.0	475DRWESMD	SPDT Latching	1.2	0.5	60	110	FPWRD475D24	Al
		475DRWDESMD	DPDT Latching					FMWRD475D24	
WRD580	5.8-16.0	580DRWESMD	SPDT Latching	1.2	0.5	60	110	FPWRD580D28	Al
		580DRWDESMD	DPDT Latching					FMWRD580D28	
WRD650	6.5-18.0	650DRWESMD	SPDT Latching	1.2	0.5	60	110	FPWRD650D28	Al
		650DRWDESMD	DPDT Latching					FMWRD650D28	

WG Switch

EIA WRD	Freq.(GHz)	P/N	Switch	VSWR	I. L. (dB)	Iso. (dB)	S. T. (ms)	Flange	Mat.
WRD750	7.5-18.0	750DRWESMD	SPDT Latching	1.2	0.5	60	110	FPWRD750D24	Al
		750DRWDESMD	DPDT Latching						
WRD110	11.0-26.5	110DRWESMD	SPDT Latching	1.2	0.5	60	110	FPWRD110C24	Al
		110DRWDESMD	DPDT Latching					FMWRD110C24	
WRD180	18.0-40.0	180DRWESMD	SPDT Latching	1.2	0.5	60	110	FPWRD180C24	Al
		180DRWDESMD	DPDT Latching					FMWRD180C24	

H-Plane

EIA WRD	Freq.(GHz)	P/N	Switch	VSWR	I. L. (dB)	Iso. (dB)	S. T. (ms)	Flange	Mat.
WRD475	4.75-11.0	475DRWHSMD	SPDT Latching	1.2	0.5	60	110	FPWRD475D24	Al
WRD580	5.8-16.0	580DRWHSMD	SPDT Latching	1.2	0.5	60	110	FPWRD580D28	Al
WRD650	6.5-18.0	650DRWHSMD	SPDT Latching	1.2	0.5	60	110	FPWRD650D28	Al
WRD750	7.5-18.0	750DRWHSMD	SPDT Latching	1.2	0.5	60	110	FPWRD750D24	Al
WRD110	11.0-26.5	110DRWHSMD	SPDT Latching	1.2	0.5	60	110	FPWRD110C24	Al
WRD180	18.0-40.0	180DRWHSMD	SPDT Latching	1.2	0.5	60	110	FPWRD180C24	Al



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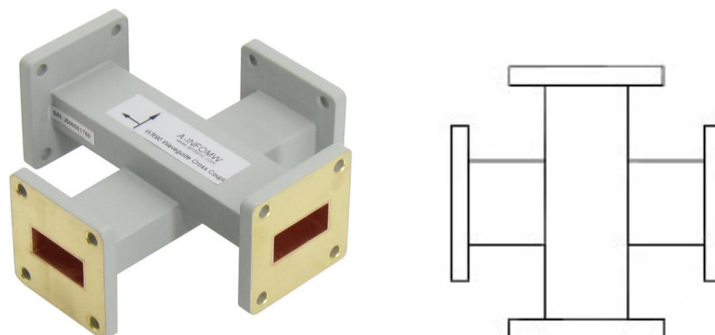
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WG Coupler

WG Coupler

1. WG Coupler - Cross

W+C-XX Type



Model Information

Example Part Number: 975 W+C -XX

Waveguide Size: WR975 to WR28

Product Code

Coupling(dB)

P/N	EIA WR	Freq.(GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. Max.	VSWR S.L. Max.	Mat.	Flange
975W+C-30	WR975	0.75-1.12	30	±0.7	±1.0	18	1.10	1.10	Al	FDP9
975W+C-XX	WR975	0.75-1.12	40 50/60	±0.7	±1.0	18	1.05	1.05	Al	FDP9
770W+C-30	WR770	0.96-1.45	30	±0.7	±1.0	18	1.10	1.10	Al	FDP12
770W+C-XX	WR770	0.96-1.45	40 50/60	±0.7	±1.0	18	1.05	1.05	Al	FDP12
650W+C-30	WR650	1.12-1.70	30	±0.7	±1.0	18	1.10	1.10	Al	FDP14
650W+C-XX	WR650	1.12-1.70	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Al	FDP14
510W+C-30	WR510	1.45-2.20	30	±0.7	±1.0	18	1.10	1.10	Al	FDP18
510W+C-XX	WR510	1.45-2.20	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Al	FDP18
430W+C-30	WR430	1.70-2.60	30	±0.7	±1.0	18	1.10	1.10	Al	FDP22
430W+C-XX	WR430	1.70-2.60	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Al	FDP22
340W+C-30	WR340	2.20-3.30	30	±0.7	±1.0	18	1.10	1.10	Al	FDP26
340W+C-XX	WR340	2.20-3.30	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Al	FDP26
284W+C-30	WR284	2.60-3.95	30	±0.7	±1.0	18	1.10	1.10	Al	FDP32
284W+C-XX	WR284	2.60-3.95	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Al	FDP32



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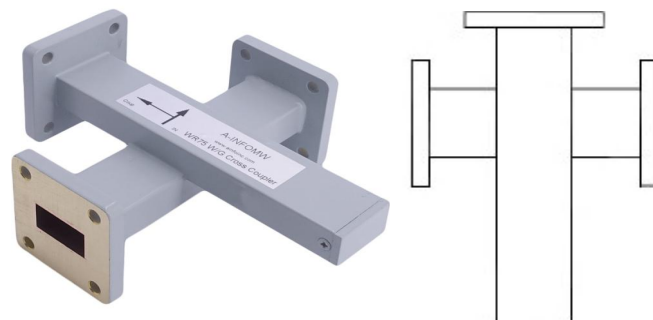
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WG Coupler

P/N	EIA WR	Freq.(GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. Max.	VSWR S.L. Max.	Mat.	Flange
229W+C-30	WR229	3.30-4.90	30	±0.7	±1.0	18	1.10	1.10	Al	FDP40
229W+C-XX	WR229	3.30-4.90	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Al	FDP40
187W+C-30	WR187	3.95-5.85	30	±0.7	±1.0	18	1.10	1.10	Al	FDP48
187W+C-XX	WR187	3.95-5.85	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Al	FDP48
159W+C-30	WR159	4.90-7.05	30	±0.7	±1.0	18	1.10	1.10	Al	FDP58
159W+C-XX	WR159	4.90-7.05	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Al	FDP58
137W+C-30	WR137	5.85-8.20	30	±0.7	±1.0	18	1.10	1.10	Al	FDP70
137W+C-XX	WR137	5.85-8.20	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Al	FDP70
112W+C-30	WR112	7.05-10.0	30	±0.7	±1.0	18	1.10	1.10	Al	FBP84
112W+C-XX	WR112	7.05-10.0	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Al	FBP84
90W+C-30_Cu	WR90	8.20-12.4	30	±0.7	±1.0	18	1.10	1.10	Cu	FBP100
90W+C-XX_Cu	WR90	8.20-12.4	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Cu	FBP100
75W+C-30_Cu	WR75	10.0-15.0	30	±0.7	±1.0	18	1.10	1.10	Cu	FBP120
75W+C-XX_Cu	WR75	10.0-15.0	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Cu	FBP120
62W+C-30_Cu	WR62	12.4-18.0	30	±0.7	±1.0	18	1.10	1.10	Cu	FBP140
62W+C-XX_Cu	WR62	12.4-18.0	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Cu	FBP140
51W+C-30_Cu	WR51	15.0-22.0	30	±0.7	±1.0	18	1.10	1.10	Cu	FBP180
51W+C-XX_Cu	WR51	15.0-22.0	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Cu	FBP180
42W+C-30_Cu	WR42	18.0-26.5	30	±0.7	±1.0	18	1.10	1.10	Cu	FBP220
42W+C-XX_Cu	WR42	18.0-26.5	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Cu	FBP220
34W+C-30_Cu	WR34	22.0-33.0	30	±0.7	±1.0	18	1.10	1.10	Cu	FBP260
34W+C-XX_Cu	WR34	22.0-33.0	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Cu	FBP260
28W+C-30_Cu	WR34	26.5-40.0	30	±0.7	±1.0	18	1.10	1.10	Cu	FBP320
28W+C-XX_Cu	WR28	26.5-40.0	40/ 50/60	±0.7	±1.0	18	1.05	1.05	Cu	FBP320

WG Coupler

WL+C-XX Type



Model Information

Example Part Number: 975 WL+C -XX

Waveguide Size: WR975 to WR28

Product Code

Coupling(dB)

P/N	EIA WR	Freq.(GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. Max.	VSWR S.L. Max.	Mat.	Flange
975WL+C-30	WR975	0.75-1.12	30	±0.7	±1.0	18	1.1	1.1	Al	FDP9
975WL+C-XX	WR975	0.75-1.12	40/50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP9
770WL+C-30	WR770	0.96-1.45	30	±0.7	±1.0	18	1.1	1.1	Al	FDP12
770WL+C-XX	WR770	0.96-1.45	40/50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP12
650WL+C-30	WR650	1.12-1.70	30	±0.7	±1.0	18	1.1	1.1	Al	FDP14
650WL+C-XX	WR650	1.12-1.70	40/50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP14
510WL+C-30	WR510	1.45-2.20	30	±0.7	±1.0	18	1.1	1.1	Al	FDP18
510WL+C-XX	WR510	1.45-2.20	40/50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP18
430WL+C-30	WR430	1.70-2.60	30	±0.7	±1.0	18	1.1	1.1	Al	FDP22
430WL+C-XX	WR430	1.70-2.60	40/50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP22
340WL+C-30	WR340	2.20-3.30	30	±0.7	±1.0	18	1.1	1.1	Al	FDP26
340WL+C-XX	WR340	2.20-3.30	40/50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP26
284WL+C-30	WR284	2.60-3.95	30	±0.7	±1.0	18	1.1	1.1	Al	FDP32
284WL+C-XX	WR284	2.60-3.95	40/50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP32
229WL+C-30	WR229	3.30-4.90	30	±0.7	±1.0	18	1.1	1.1	Al	FDP40
229WL+C-XX	WR229	3.30-4.90	40/50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP40
187WL+C-30	WR187	3.95-5.85	30	±0.7	±1.0	18	1.1	1.1	Al	FDP48



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WG Coupler

P/N	EIA WR	Freq. (GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. Max.	VSWR S.L. Max.	Mat.	Flange
187WL+C-XX	WR187	3.95-5.85	40/ 50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP48
159WL+C-30	WR159	4.90-7.05	30	±0.7	±1.0	18	1.1	1.1	Al	FDP48
159WL+C-XX	WR159	4.90-7.05	40/ 50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP58
137WL+C-30	WR137	5.85-8.20	30	±0.7	±1.0	18	1.1	1.1	Al	FDP70
137WL+C-XX	WR137	5.85-8.20	40/ 50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP70
112WL+C-30	WR112	7.05-10.0	30	±0.7	±1.0	18	1.1	1.1	Al	FDP84
112WL+C-XX	WR112	7.05-10.0	40/ 50/60	±0.7	±1.0	18	1.05	1.1	Al	FDP84
90WL+C-30_Cu	WR90	8.20-12.4	30	±0.7	±1.0	18	1.1	1.1	Al	FBP100
90WL+C-XX_Cu	WR90	8.20-12.4	40/ 50/60	±0.7	±1.0	18	1.05	1.1	Cu	FBP100
75WL+C-30_Cu	WR75	10.0-15.0	30	±0.7	±1.0	18	1.1	1.1	Cu	FBP120
75WL+C-XX_Cu	WR75	10.0-15.0	40/ 50/60	±0.7	±1.0	18	1.05	1.1	Cu	FBP120
62WL+C-30_Cu	WR62	12.4-18.0	30	±0.7	±1.0	18	1.1	1.1	Cu	FBP140
62WL+C-XX_Cu	WR62	12.4-18.0	40/ 50/60	±0.7	±1.0	18	1.05	1.1	Cu	FBP140
51WL+C-30_Cu	WR51	15.0-22.0	30	±0.7	±1.0	18	1.1	1.1	Cu	FBP180
51WL+C-XX_Cu	WR51	15.0-22.0	40/ 50/60	±0.7	±1.0	18	1.05	1.1	Cu	FBP180
42WL+C-30_Cu	WR42	18.0-26.5	30	±0.7	±1.0	18	1.1	1.1	Cu	FBP220
42WL+C-XX_Cu	WR42	18.0-26.5	40/ 50/60	±0.7	±1.0	18	1.05	1.1	Cu	FBP220
34WL+C-20_Cu	WR34	22.0-33.0	20	±0.7	±1.0	12	1.20	1.25	Cu	FBP260
34WL+C-30_Cu	WR34	22.0-33.0	30	±0.7	±1.0	18	1.1	1.1	Cu	FBP260
34WL+C-XX_Cu	WR34	22.0-33.0	40/ 50/60	±0.7	±1.0	18	1.05	1.1	Cu	FBP260
28WL+C-30_Cu	WR28	26.5-40.0	30	±0.7	±1.0	18	1.1	1.1	Cu	FBP320
28WL+C-XX_Cu	WR28	26.5-40.0	40/ 50/60	±0.7	±1.0	18	1.05	1.1	Cu	FBP320



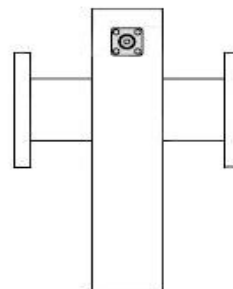
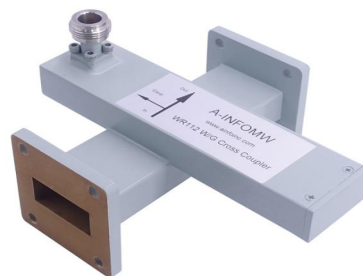
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WG Coupler

WL+Cx-XX Type



Model Information

Example Part Number: 975 WL+Cx -XX

Waveguide Size: WR975 to WR28

Product Code, x means connector type:

N=N Type-Female; NM=N Type-Male; S=SMA-Female; SM=SMA-Male;

3.5=3.5mm-Female; 3.5M=3.5mm-Male; K=2.92mm-Female;

KM=2.92mm-Male; 2.4=2.4mm-Female; 2.4M=2.4mm-Male;

Coupling(dB)

P/N	EIA WR	Freq. (GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. Max.	VSWR S.L. Max.	Mat.	Con.	Flange
975WL+CN-30	WR975	0.75-1.12	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP9
975WL+CN-XX	WR975	0.75-1.12	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FDP9
975WL+CS-30	WR975	0.75-1.12	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP9
975WL+CS-XX	WR975	0.75-1.12	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FDP9
770WL+CN-30	WR770	0.96-1.45	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP12
770WL+CN-XX	WR770	0.96-1.45	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FDP12
770WL+CS-30	WR770	0.96-1.45	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP12
770WL+CS-XX	WR770	0.96-1.45	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FDP12
650WL+CN-30	WR650	1.12-1.70	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP14
650WL+CN-XX	WR650	1.12-1.70	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FDP14
650WL+CS-30	WR650	1.12-1.70	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP14
650WL+CS-XX	WR650	1.12-1.70	30/40 50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FDP14
510WL+CN-30	WR510	1.45-2.20	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP18

WG Coupler

P/N	EIA WR	Freq. (GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. Max.	VSWR S.L. Max.	Mat.	Con.	Flange
510WL+C N-XX	WR510	1.45-2.20	40/50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FDP18
510WL+C S-30	WR510	1.45-2.20	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP18
510WL+C S-XX	WR510	1.45-2.20	40/50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FDP18
430WL+C N-30	WR430	1.70-2.60	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP22
430WL+C N-XX	WR430	1.70-2.60	30/40/50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FDP22
430WL+C S-30	WR430	1.70-2.60	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP22
430WL+C S-XX	WR430	1.70-2.60	40/50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FDP22
340WL+C N-30	WR340	2.20-3.30	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP26
340WL+C N-XX	WR340	2.20-3.30	40/50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FDP26
340WL+C S-30	WR340	2.20-3.30	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP26
340WL+C S-XX	WR340	2.20-3.30	40/50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FDP26
284WL+C N-30	WR284	2.60-3.95	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP32
284WL+C N-40	WR284	2.60-3.95	40	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP32
284WL+C N-XX	WR284	2.60-3.95	50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FDP32
284WL+C S-30	WR284	2.60-3.95	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP32
284WL+C S-40	WR284	2.60-3.95	40	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP32
284WL+C S-XX	WR284	2.60-3.95	50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FDP32
229WL+C N-30	WR229	3.30-4.90	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP40
229WL+C N-XX	WR229	3.30-4.90	40/50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FDP40
229WL+C NM-30	WR229	3.30-4.90	30	±0.7	±1.0	18	1.10	1.25	Al	N-M	FDP40
229WL+C NM-XX	WR229	3.30-4.90	40/50/60	±0.7	±1.0	18	1.05	1.25	Al	N-M	FDP40
229WL+C S-30	WR229	3.30-4.90	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP40
229WL+C S-XX	WR229	3.30-4.90	40/50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FDP40
229WL+C SM-30	WR229	3.30-4.90	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-M	FDP40
229WL+C SM-XX	WR229	3.30-4.90	40/50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-M	FDP40
187WL+C N-30	WR187	3.95-5.85	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP48



WG Coupler

P/N	EIA WR	Freq. (GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. Max.	VSWR S.L. Max.	Mat.	Con.	Flange
187WL+ CN-XX	WR187	3.95-5.85	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FDP48
187WL+ CNM-30	WR187	3.95-5.85	30	±0.7	±1.0	18	1.10	1.25	Al	N-M	FDP48
187WL+ CNM-XX	WR187	3.95-5.85	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	N-M	FDP48
187WL+ CS-30	WR187	3.95-5.85	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP48
187WL+ CS-XX	WR187	3.95-5.85	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FDP48
187WL+ CSM-30	WR187	3.95-5.85	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-M	FDP48
187WL+ CSM-XX	WR187	3.95-5.85	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-M	FDP48
159WL+ CN-30	WR159	4.90-7.05	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP58
159WL+ CN-XX	WR159	4.90-7.05	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FDP58
159WL+ CNM-30	WR159	4.90-7.05	30	±0.7	±1.0	18	1.10	1.25	Al	N-M	FDP58
159WL+ CNM-XX	WR159	4.90-7.05	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	N-M	FDP58
159WL+ CS-30	WR159	4.90-7.05	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP58
159WL+ CS-XX	WR159	4.90-7.05	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FDP58
159WL+ CSM-30	WR159	4.90-7.05	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-M	FDP58
159WL+ CSM-XX	WR159	4.90-7.05	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-M	FDP58
137WL+ CN-30	WR137	5.85-8.20	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FDP70
137WL+ CN-XX	WR137	5.85-8.20	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FDP70
137WL+ CNM-30	WR137	5.85-8.20	30	±0.7	±1.0	18	1.10	1.25	Al	N-M	FDP70
137WL+ CNM-XX	WR137	5.85-8.20	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	N-M	FDP70
137WL+ CS-30	WR137	5.85-8.20	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FDP70
137WL+ CS-XX	WR137	5.85-8.20	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FDP70
137WL+ CSM-30	WR137	5.85-8.20	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-M	FDP70
137WL+ CSM-XX	WR137	5.85-8.20	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-M	FDP70
112WL+ CN-30	WR112	7.05-10.0	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FBP84/ FDP84



WG Coupler

P/N	EIA WR	Freq. (GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. Max.	VSWR S.L. Max.	Mat.	Con.	Flange
112WL+ CN-XX	WR112	7.05-10.0	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al/ Cu	N-F	FBP84/ FDP84
112WL+ CNM-30	WR112	7.05-10.0	30	±0.7	±1.0	18	1.10	1.25	Al	N-M	FBP84
112WL+ CNM-XX	WR112	7.05-10.0	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	N-M	FBP84
112WL+ CS-30	WR112	7.05-10.0	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FBP84/ FDP84
112WL+ CS-XX	WR112	7.05-10.0	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al/ Cu	SMA-F	FBP84
112WL+ CSM-30	WR112	7.05-10.0	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-M	FBP84
112WL+ CSM-XX	WR112	7.05-10.0	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-M	FBP84
90WL+C N-30	WR90	8.20-12.4	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FBP100
90WL+C N-40	WR90	8.20-12.4	40	±0.7	±1.0	18	1.05	1.25	Al	N-F	FBP100
90WL+C N-30_Cu	WR90	8.20-12.4	30	±0.7	±1.0	18	1.10	1.25	Cu	N-F	FBP100
90WL+C N-XX_Cu	WR90	8.20-12.4	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Cu	N-F	FBP100
90WL+C NM-30	WR90	8.20-12.4	30	±0.7	±1.0	18	1.10	1.25	Al	N-M	FBP100
90WL+C NM-40	WR90	8.20-12.4	40	±0.7	±1.0	18	1.05	1.25	Al	N-M	FBP100
90WL+CN M-30_Cu	WR90	8.20-12.4	30	±0.7	±1.0	18	1.10	1.25	Cu	N-M	FBP100
90WL+CN M-XX_Cu	WR90	8.20-12.4	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Cu	N-M	FBP100
90WL+C S-30	WR90	8.20-12.4	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FBP100
90WL+C S-40	WR90	8.20-12.4	40	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FBP100
90WL+C S-30_Cu	WR90	8.20-12.4	30	±0.7	±1.0	18	1.10	1.25	Cu	SMA-F	FBP100
90WL+C S-XX_Cu	WR90	8.20-12.4	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Cu	SMA-F	FBP100
90WL+C SM-30	WR90	8.20-12.4	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-M	FBP100
90WL+C SM-40	WR90	8.20-12.4	40	±0.7	±1.0	18	1.05	1.25	Al	SMA-M	FBP100
90WL+CS M-30_Cu	WR90	8.20-12.4	30	±0.7	±1.0	18	1.10	1.25	Cu	SMA-M	FBP100
90WL+CS M-XX_Cu	WR90	8.20-12.4	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Cu	SMA-M	FBP100
75WL+C N-30_Cu	WR75	10.0-15.0	30	±0.7	±1.0	18	1.10	1.25	Cu	N-F	FBP120
75WL+C N-XX_Cu	WR75	10.0-15.0	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Cu	N-F	FBP120
75WL+CN M-30_Cu	WR75	10.0-15.0	30	±0.7	±1.0	18	1.10	1.25	Cu	N-M	FBP120
75WL+CN M-XX_Cu	WR75	10.0-15.0	40/ 50/60	±0.7	±1.0	18	1.05	1.25	Cu	N-M	FBP120



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P/N	EIA WR	Freq. (GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. Max.	VSWR S.L. Max.	Mat.	Con.	Flange
75WL+CS-30 Cu	WR75	10.0-15.0	30	±0.7	±1.0	18	1.10	1.25	Cu	SMA-F	FBP120
75WL+CS-XX Cu	WR75	10.0-15.0	40/50/60	±0.7	±1.0	18	1.05	1.25	Cu	SMA-F	FBP120 /FBM140
75WL+CSM-30 Cu	WR75	10.0-15.0	30	±0.7	±1.0	18	1.10	1.25	Cu	SMA-M	FBP120
75WL+CSM-XX Cu	WR75	10.0-15.0	40/50/60	±0.7	±1.0	18	1.05	1.25	Cu	SMA-M	FBP120
62WL+CN-30	WR62	12.4-18.0	30	±0.7	±1.0	18	1.10	1.25	Al	N-F	FBP140
62WL+CN-XX	WR62	12.4-18.0	40/50/60	±0.7	±1.0	18	1.05	1.25	Al	N-F	FBP140
62WL+CN-30 Cu	WR62	12.4-18.0	30	±0.7	±1.0	18	1.10	1.25	Cu	N-F	FBP140
62WL+CNM-XX Cu	WR62	12.4-18.0	40/50/60	±0.7	±1.0	18	1.05	1.25	Cu	N-M	FBP140
62WL+CS-30	WR62	12.4-18.0	30	±0.7	±1.0	18	1.10	1.25	Al	SMA-F	FBP140
62WL+CS-XX	WR62	12.4-18.0	40/50/60	±0.7	±1.0	18	1.05	1.25	Al	SMA-F	FBP140
62WL+CS-30 Cu	WR62	12.4-18.0	30	±0.7	±1.0	18	1.10	1.25	Cu	SMA-F	FBP140
62WL+CSM-30 Cu	WR62	12.4-18.0	30	±0.7	±1.0	18	1.10	1.25	Cu	SMA-M	FBP140
62WL+CSM-XX Cu	WR62	12.4-18.0	40/50/60	±0.7	±1.0	18	1.05	1.25	Cu	SMA-M	FBP140
51WL+CS-30 Cu	WR51	15.0-22.0	30	±0.7	±1.0	18	1.10	1.25	Cu	SMA-F	FBP180
51WL+CS-XX Cu	WR51	15.0-22.0	40/50/60	±0.7	±1.0	18	1.05	1.25	Cu	SMA-F	FBP180
51WL+CSM-30 Cu	WR51	15.0-22.0	30	±0.7	±1.0	18	1.10	1.25	Cu	SMA-M	FBP180
51WL+CSM-XX Cu	WR51	15.0-22.0	40/50/60	±0.7	±1.0	18	1.05	1.25	Cu	SMA-M	FBP180
42WL+CS-30 Cu	WR42	18.0-26.5	30	±0.7	±1.0	18	1.10	1.35	Cu	SMA-F	FBP220
42WL+CS-XX Cu	WR42	18.0-26.5	40/50/60	±0.7	±1.0	18	1.05	1.35	Cu	SMA-F	FBP220
42WL+C3.5-30 Cu	WR42	18.0-26.5	30	±0.7	±1.0	18	1.10	1.35	Cu	3.5mm-F	FBP220
42WL+C3.5-XX Cu	WR42	18.0-26.5	40/50/60	±0.7	±1.0	18	1.05	1.35	Cu	3.5mm-F	FBP220
42WL+C3.5 M-30 Cu	WR42	18.0-26.5	30	±0.7	±1.0	18	1.10	1.35	Cu	3.5mm-M	FBP220
42WL+C3.5 M-XX Cu	WR42	18.0-26.5	40/50/60	±0.7	±1.0	18	1.05	1.35	Cu	3.5mm-M	FBP220
42WL+CK-30 Cu	WR42	18.0-26.5	30	±0.7	±1.0	18	1.10	1.35	Cu	2.92mm-F	FBP220
42WL+CK-XX Cu	WR42	18.0-26.5	40/50/60	±0.7	±1.0	18	1.05	1.35	Cu	2.92mm-F	FBP220
42WL+CKM-30 Cu	WR42	18.0-26.5	30	±0.7	±1.0	18	1.10	1.35	Cu	2.92mm-M	FBP220
42WL+CKM-XX Cu	WR42	18.0-26.5	40/50/60	±0.7	±1.0	18	1.05	1.35	Cu	2.92mm-M	FBP220
34WL+CK-30 Cu	WR34	22.0-33.0	30	±0.7	±1.0	18	1.10	1.35	Cu	2.92mm-F	FBP260
34WL+CK-XX Cu	WR34	22.0-33.0	30/40/50/60	±0.7	±1.0	18	1.05	1.35	Cu	2.92mm-F	FBP260
34WL+CKM-30 Cu	WR34	22.0-33.0	30	±0.7	±1.0	18	1.10	1.35	Cu	2.92mm-M	FBP260
34WL+CKM-XX Cu	WR34	22.0-33.0	40/50/60	±0.7	±1.0	18	1.05	1.35	Cu	2.92mm-M	FBP260



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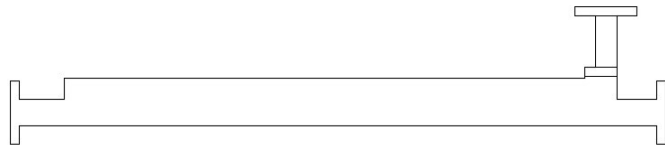
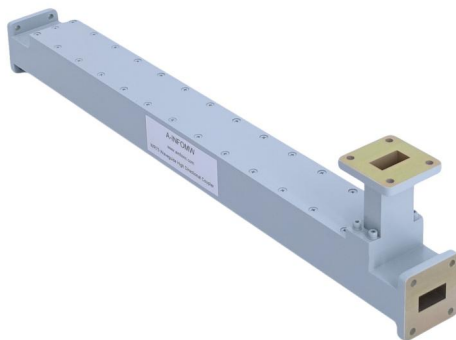
P/N	EIA WR	Freq. (GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. Max.	VSWR S.L. Max.	Mat.	Con.	Flange
34WL+CEK-20_Cu	WR34	22.0-33.0	20	±0.7	±1.0	12	1.20	1.4	Cu	2.92mm-F	FBP260
28WL+CK-30_Cu	WR28	26.5-40.0	30	±0.7	±1.0	18	1.10	1.4	Cu	2.92mm-F	FBP320
28WL+CK-40_Cu	WR28	26.5-40.0	40	±0.7	±1.0	18	1.10	1.4	Cu	2.92mm-F	FBP320
28WL+CK-XX_Cu	WR28	26.5-40.0	50/60	±0.7	±1.0	18	1.05	1.4	Cu	2.92mm-F	FBP320
28WL+CKM-30_Cu	WR28	26.5-40.0	30	±0.7	±1.0	18	1.10	1.4	Cu	2.92mm-M	FBP320
28WL+CKM-XX_Cu	WR28	26.5-40.0	40/ 50/60	±0.7	±1.0	18	1.05	1.4	Cu	2.92mm-M	FBP320
28WL+C2.4-XX_Cu	WR28	26.5-40.0	30	±0.7	±1.0	18	1.10	1.4	Cu	2.4mm-F	FBP320
28WL+C2.4-XX_Cu	WR28	26.5-40.0	40/ 50/60	±0.7	±1.0	18	1.05	1.4	Cu	2.4mm-F	FBP320
28WL+C2.4M-XX_Cu	WR28	26.5-40.0	30	±0.7	±1.0	18	1.10	1.4	Cu	2.4mm-M	FBP320
28WL+C2.4M-XX_Cu	WR28	26.5-40.0	40/ 50/60	±0.7	±1.0	18	1.05	1.4	Cu	2.4mm-M	FBP320



WG Coupler

2. WG Coupler - High Directional

WC-XX Type



Model Information

Example Part Number: 284 WC

-XX

Waveguide Size: WR284 to WR10

Product Code

Coupling(dB)

P/N	EIA WR	Freq. (GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Mat.
284WC-XX	WR284	2.60-3.95	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FDP32	Al
229WC-XX	WR229	3.30-4.90	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FDP40	Al
187WC-XX	WR187	3.95-5.85	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FDP48	Al
159WC-XX	WR159	4.90-7.05	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FDP58	Al
137WC-XX	WR137	5.85-8.20	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FDP70	Al
112WC-XX	WR112	7.05-10.0	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FBP84	Al
90WC-XX	WR90	8.20-12.40	3/6/10/ 20/50	±0.9	±0.7	30	1.05 1.15	FBP100	Al
90WC-30	WR90	8.20-12.40	30	±0.9	±0.7	30	1.05 1.15	FBP100	Al
90WC-40	WR90	8.20-12.40	40	±0.9	±0.7	30	1.10 1.25	FBP100	Al



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P/N	EIA WR	Freq. (GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Mat.
75WC-XX	WR75	10.0-15.0	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.15	FBP120	Al
62WC-XX	WR62	12.4-18.0	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.15	FBP140	Al
51WC-XX	WR51	15.0-22.0	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.15	FBP180	Al
42WC-XX	WR42	18.0-26.5	10/30/40	±1.0	±0.9	30	1.1 1.15	FBP220	Al
42WC-XX_Cu	WR42	18.0-26.5	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.15	FBP220	Cu
34WC-XX_Cu	WR34	22.0-33.0	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.15	FBP260	Cu
28WC-XX_Cu	WR28	26.5-40.0	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.15	FBP320	Cu
22WC-XX_Cu	WR22	33.0-50.0	3/6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP400	Cu
19WC-XX_Cu	WR19	40.0-60.0	3/6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP500	Cu
15WC-XX_Cu	WR15	50.0-75.0	3/6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP620	Cu
12WC-XX_Cu	WR12	60.0-90.0	3/6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP740	Cu
10WC-XX_Cu	WR10	75.0-110.0	3/6/10/ 20/30/ 40/50	±1.3	±0.9	20	1.15 1.2	FUGP900	Cu



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WG Coupler

WCHB-XX Type



Model Information

Example Part Number: 51 WCHB -XX

Waveguide Size: WR51 to WR10

Product Code

Coupling(dB)

P/N	EIA WR	Freq. (GHz)	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	M.L. S.L. Max.	Flange	Mat.
51WCHB-XX	WR51	15.0-22.0	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.1	FBP180	Al
42WCHB-XX	WR42	18.0-26.5	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.15	FBP220	Al
34WCHB-XX_Cu	WR34	22.0-33.0	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.15	FBP260	Cu
28WCHB-XX_Cu	WR28	26.5-40.0	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.15	FBP320	Cu
22WCHB-XX_Cu	WR22	33.0-50.0	3/6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP400	Cu
19WCHB-XX_Cu	WR19	40.0-60.0	3/6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP500	Cu
15WCHB-20_Cu	WR15	50.0-75.0	20	±1.5	±0.9	30	1.15 1.2	FUGP620	Cu
15WCHB-XX_Cu	WR15	50.0-75.0	3/6/ 10/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP620	Cu
12WCHB-20_Cu	WR15	60.0-90.0	20	±1.5	±0.9	30	1.15 1.2	FUGP740	Cu
12WCHB-XX_Cu	WR12	60.0-90.0	3/6/ 10/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP740	Cu
10WCHB-XX_Cu	WR10	75.0-110.0	10/20/	±1.5	±0.9	30	1.15 1.2	FUGP900	Cu
10WCHB-XX_Cu	WR10	75.0-110.0	3/6/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP900	Cu



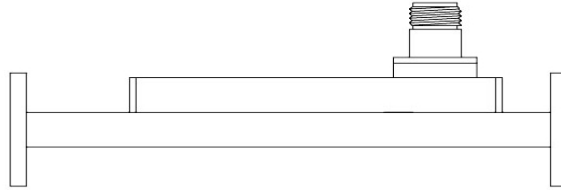
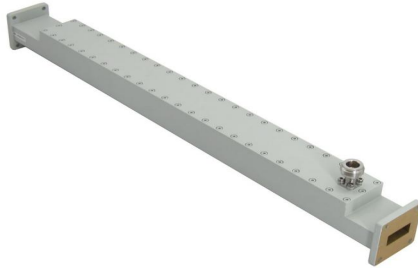
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WG Coupler

WCx-XX Type



Model Information

Example Part Number: 430 WCx -XX

Waveguide Size: WR430 to WR15

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male;
S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male;
K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female;
2.4M=2.4mm-Male; 1.85=1.85mm-Female; 1.85M=1.85mm-Male;

Coupling(dB)

WR	(GHz)	P/N	(dB)	Acc. (dB)	SS. (dB)	(dB) Min.	S.L. Max.	Flange	Con.	Mat.
WR430	1.70-2.60	430WCN-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP22	N-F	Al
WR430	1.70-2.60	430WCS-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP22	SMA-F	Al
WR340	2.20-3.30	340WCN-XX	3/6/10/ 20/30/ 40/50/60	±0.9	±0.7	30	1.05 1.25	FDP26	N-F	Al
WR340	2.20-3.30	340WCS-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP26	SMA-F	Al
WR284	2.60-3.95	284WCN-XX	3/6/10/ 20/30/ 40/50/60	±0.9	±0.7	30	1.05 1.25	FDP32	N-F	Al
WR284	2.60-3.95	284WCS-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP32	SMA-F	Al
WR229	3.30-4.90	229WCN-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP40	N-F	Al
WR229	3.30-4.90	229WCNM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP40	N-M	Al
WR229	3.30-4.90	229WCS-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP40	SMA-F	Al
WR229	3.30-4.90	229WCSM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP40	SMA-M	Al



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR187	3.95-5.85	187WCN-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP48/ FDM48	N-F	Al
WR187	3.95-5.85	187WCN-60	60	±1.0	±0.7	20	1.10 1.35	FDP48	N-F	Al
WR187	3.95-5.85	187WCNM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP48	N-M	Al
WR187	3.95-5.85	187WCS-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP48/ FDM48	SMA-F	Al
WR187	3.95-5.85	187WCS-60	60	±0.9	±0.7	20	1.10 1.35	FDP48	SMA-F	Al
WR187	3.95-5.85	187WCSM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP48	SMA-M	Al
WR159	4.90-7.05	159WCN-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	N-F	Al
WR159	4.90-7.05	159WCNM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	N-M	Al
WR159	4.90-7.05	159WCS-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	SMA-F	Al
WR159	4.90-7.05	159WCSM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	SMA-M	Al
WR137	5.85-8.20	137WCN-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	N-F	Al
WR137	5.85-8.20	137WCNM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	N-M	Al
WR137	5.85-8.20	137WCS-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	SMA-F	Al
WR137	5.85-8.20	137WCSM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	SMA-M	Al
WR112	7.05-10.0	112WCN-30	30	±1.0	±0.7	30	1.10 1.25	FBP84	N-F	Al
WR112	7.05-10.0	112WCN-XX	3/6/10/ 20/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP84	N-F	Al
WR112	7.05-10.0	112WCNM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP84	N-M	Al
WR112	7.05-10.0	112WCS-30	30	±1.0	±0.65.7	30	1.10 1.25	FBP84	SMA-F	Al
WR112	7.05-10.0	112WCS-XX	3/6/10/ 20/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP84	SMA-F	Al
WR112	7.05-10.0	112WCSM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP84	SMA-M	Al



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR90	8.20-12.4	90WCN-XX	3/6/10/ 20/30	±0.9	±0.7	30	1.05 1.25	FBP100	N-F	Al
WR90	8.20-12.4	90WCN-XX	40/50	±1.0	±0.7	30	1.10 1.25	FBP100	N-F	Al
WR90	8.20-12.4	90WCN-XX	60	±2.0	±0.7	20	1.10 1.25	FBP100	N-F	Al
WR90	8.20-12.4	90WCNM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP100	N-M	Al
WR90	8.20-12.4	90WCS-XX	3/6/10/ 20/30	±0.9	±0.7	30	1.05 1.25	FBP100	SMA-F	Al
WR90	8.20-12.4	90WCS-XX	40/50	±1.0	±0.7	30	1.10 1.25	FBP100	SMA-F	Al
WR90	8.20-12.4	90WCS-60_Cu	60	±2.0	±0.7	20	1.05 1.25	FBP100	SMA-F	Cu
WR90	8.20-12.4	90WCSM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP100	SMA-M	Al
WR75	10.0-15.0	75WCN-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP120	N-F	Al
WR75	10.0-15.0	75WCNM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP120	N-M	Al
WR75	10.0-15.0	75WCS-XX	3/6/10/20 /30/40	±0.9	±0.7	30	1.05 1.25	FBP120	SMA-F	Al
WR75	10.0-15.0	75WCS-50	50	±0.9	±0.7	30	1.10 1.25	FBP120	SMA-F	Al
WR75	10.0-15.0	75WCSM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP120	SMA-M	Al
WR62	12.4-18.0	62WCN-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.25	FBP140	N-F	Al
WR62	12.4-18.0	62WCNM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.25	FBP140	N-M	Al
WR62	12.4-18.0	62WCS-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.25	FBP140	SMA-F	Al/Cu
WR62	12.4-18.0	62WCSM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.25	FBP140	SMA-M	Al
WR51	15.0-22.0	51WCS-XX	3/6/10/20 /30/40/50	±0.9	±0.7	30	1.1 1.25	FBP180	SMA-M	Al
WR51	15.0-22.0	51WCSM-XX	3/6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.25	FBP180	SMA-M	Al
WR42	18.0-26.5	42WCS-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.35	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WCSM-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.35	FBP220	SMA-M	Cu
WR42	18.0-26.5	42WC3.5-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.35	FBP220	3.5mm-F	Cu

WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Con.	Mat
WR42	18.0-26.5	42WC3.5M-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.35	FBP220	3.5mm-M	Cu
WR42	18.0-26.5	42WCK-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.35	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WCKM-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.35	FBP220	2.92mm-M	Cu
WR34	22.0-33.0	34WCK-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.35	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WCKM-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.35	FBP260	2.92mm-M	Cu
WR28	26.5-40.0	28WCK-XX_Cu	3/6/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.4	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WCK-10_Cu	10	±1.0	±0.7	30	1.1 1.6	FBP320	2.92mm-M	Cu
WR28	26.5-40.0	28WCKM-XX_Cu	3/6/20/30/ 40/50	±1.0	±0.9	30	1.1 1.4	FBP320	2.92mm-M	Cu
WR28	26.5-40.0	28WC2.4-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.4	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WC2.4M-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.4	FBP320	2.4mm-M	Cu
WR22	33.0-50.0	22WC2.4-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.5	FUGP400	2.4mm-F	Cu
WR19	40.0-50.0	19WC2.4-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.4	FUGP500	2.4mm-F	Cu
WR19	40.0-60.0	19WC1.85-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.4	FUGP500	1.85mm-F	Cu
WR15	50.0-65.0	15WC1.85-XX_Cu	3/6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.4	FUGP620	1.85mm-F	Cu



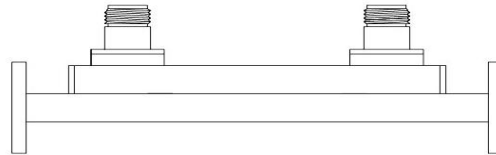
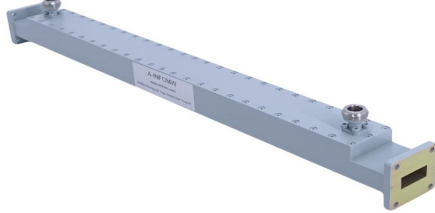
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WUCx-XX Type



Model Information

Example Part Number: **430** **WUCx** **-XX**

Waveguide Size: WR430 to WR15

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male;
S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male;
K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female;
2.4M=2.4mm-Male; 1.85=1.85mm-Female; 1.85M=1.85mm-Male;

Coupling(dB)

Directivity: Depending on the Return Loss of coaxial load connected to reverse coupling port.

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR430	1.70-2.60	430WUCN-3	3	±0.9	±0.7	1.20 1.50	FDP22	N-F	Al
WR430	1.70-2.60	430WUCN-6	6	±0.9	±0.7	1.15 1.50	FDP22	N-F	Al
WR430	1.70-2.60	430WUCN-10	10	±0.9	±0.7	1.10 1.60	FDP22	N-F	Al
WR430	1.70-2.60	430WUCN-20	20	±0.9	±0.7	1.10 1.50	FDP22	N-F	Al
WR430	1.70-2.60	430WUCN-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP22	N-F	Al
WR430	1.70-2.60	430WUCS-3	3	±0.9	±0.7	1.20 1.50	FDP22	SMA-F	Al
WR430	1.70-2.60	430WUCS-6	6	±0.9	±0.7	1.15 1.50	FDP22	SMA-F	Al
WR430	1.70-2.60	430WUCS-10	10	±0.9	±0.7	1.10 1.60	FDP22	SMA-F	Al
WR430	1.70-2.60	430WUCS-20	20	±0.9	±0.7	1.10 1.50	FDP22	SMA-F	Al
WR430	1.70-2.60	430WUCS-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP22	SMA-F	Al
WR340	2.20-3.30	340WUCN-3	3	±0.9	±0.7	1.20 1.50	FDP26	N-F	Al
WR340	2.20-3.30	340WUCN-6	6	±0.9	±0.7	1.15 1.50	FDP26	N-F	Al
WR340	2.20-3.30	340WUCN-10	10	±0.9	±0.7	1.10 1.60	FDP26	N-F	Al
WR340	2.20-3.30	340WUCN-20	20	±0.9	±0.7	1.10 1.50	FDP26	N-F	Al
WR340	2.20-3.30	340WUCN-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP26	N-F	Al
WR340	2.20-3.30	340WUCS-6	6	±0.9	±0.7	1.15 1.50	FDP26	SMA-F	Al



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR340	2.20-3.30	340WUCS-10	10	±0.9	±0.7	1.10 1.60	FDP26	SMA-F	Al
WR340	2.20-3.30	340WUCS-20	20	±0.9	±0.7	1.10 1.50	FDP26	SMA-F	Al
WR340	2.20-3.30	340WUCS-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP26	SMA-F	Al
WR284	2.60-3.95	284WUCN-3	3	±0.9	±0.7	1.20 1.50	FDP32	N-F	Al
WR284	2.60-3.95	284WUCN-6	6	±0.9	±0.7	1.15 1.50	FDP32	N-F	Al
WR284	2.60-3.95	284WUCN-10	10	±0.9	±0.7	1.10 1.60	FDP32	N-F	Al
WR284	2.60-3.95	284WUCN-20	20	±0.9	±0.7	1.10 1.50	FDP32	N-F	Al
WR284	2.60-3.95	284WUCN-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP32	N-F	Al
WR284	2.60-3.95	284WUCS-3	3	±0.9	±0.7	1.20 1.50	FDP32	SMA-F	Al
WR284	2.60-3.95	284WUCS-6	6	±0.9	±0.7	1.15 1.50	FDP32	SMA-F	Al
WR284	2.60-3.95	284WUCS-10	10	±0.9	±0.7	1.10 1.60	FDP32	SMA-F	Al
WR284	2.60-3.95	284WUCS-20	20	±0.9	±0.7	1.10 1.50	FDP32	SMA-F	Al
WR284	2.60-3.95	284WUCS-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP32	SMA-F	Al
WR229	3.30-4.90	229WUCN-3	3	±0.9	±0.7	1.20 1.50	FDP40	N-F	Al
WR229	3.30-4.90	229WUCN-6	6	±0.9	±0.7	1.15 1.50	FDP40	N-F	Al
WR229	3.30-4.90	229WUCN-10	10	±0.9	±0.7	1.10 1.60	FDP40	N-F	Al
WR229	3.30-4.90	229WUCN-20	20	±0.9	±0.7	1.10 1.50	FDP40	N-F	Al
WR229	3.30-4.90	229WUCN-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP40	N-F	Al
WR229	3.30-4.90	229WUCNM-3	3	±0.9	±0.7	1.20 1.50	FDP40	N-M	Al
WR229	3.30-4.90	229WUCNM-6	6	±0.9	±0.7	1.15 1.50	FDP40	N-M	Al
WR229	3.30-4.90	229WUCNM-10	10	±0.9	±0.7	1.10 1.60	FDP40	N-M	Al
WR229	3.30-4.90	229WUCNM-20	20	±0.9	±0.7	1.10 1.50	FDP40	N-M	Al
WR229	3.30-4.90	229WUCNM-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP40	N-M	Al
WR229	3.30-4.90	229WUCS-3	3	±0.9	±0.7	1.20 1.50	FDP40	SMA-F	Al
WR229	3.30-4.90	229WUCS-6	6	±0.9	±0.7	1.15 1.50	FDP40	SMA-F	Al
WR229	3.30-4.90	229WUCS-10	10	±0.9	±0.7	1.10 1.60	FDP40	SMA-F	Al
WR229	3.30-4.90	229WUCS-20	20	±0.9	±0.7	1.10 1.50	FDP40	SMA-F	Al
WR229	3.30-4.90	229WUCS-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP40	SMA-F	Al
WR229	3.30-4.90	229WUCSM-3	3	±0.9	±0.7	1.20 1.50	FDP40	SMA-M	Al
WR229	3.30-4.90	229WUCSM-6	6	±0.9	±0.7	1.15 1.50	FDP40	SMA-M	Al
WR229	3.30-4.90	229WUCSM-10	10	±0.9	±0.7	1.10 1.60	FDP40	SMA-M	Al



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR229	3.30-4.90	229WUCSM-20	20	±0.9	±0.7	1.10 1.50	FDP40	SMA-M	Al
WR229	3.30-4.90	229WUCSM-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP40	SMA-M	Al
WR187	3.95-5.85	187WUCN-3	3	±0.9	±0.7	1.20 1.50	FDP48	N-F	Al
WR187	3.95-5.85	187WUCN-6	6	±0.9	±0.7	1.15 1.50	FDP48	N-F	Al
WR187	3.95-5.85	187WUCN-10	10	±0.9	±0.7	1.10 1.60	FDP48	N-F	Al
WR187	3.95-5.85	187WUCN-20	20	±0.9	±0.7	1.10 1.50	FDP48	N-F	Al
WR187	3.95-5.85	187WUCN-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP48	N-F	Al
WR187	3.95-5.85	187WUCNM-3	3	±0.9	±0.7	1.20 1.50	FDP48	N-M	Al
WR187	3.95-5.85	187WUCNM-6	6	±0.9	±0.7	1.15 1.50	FDP48	N-M	Al
WR187	3.95-5.85	187WUCNM-10	10	±0.9	±0.7	1.10 1.60	FDP48	N-M	Al
WR187	3.95-5.85	187WUCNM-20	20	±0.9	±0.7	1.10 1.50	FDP48	N-M	Al
WR187	3.95-5.85	187WUCNM-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP48	N-M	Al
WR187	3.95-5.85	187WUCS-3	3	±0.9	±0.7	1.20 1.50	FDP48	SMA-F	Al
WR187	3.95-5.85	187WUCS-6	6	±0.9	±0.7	1.15 1.50	FDP48	SMA-F	Al
WR187	3.95-5.85	187WUCS-10	10	±0.9	±0.7	1.10 1.60	FDP48	SMA-F	Al
WR187	3.95-5.85	187WUCS-20	20	±0.9	±0.7	1.10 1.50	FDP48	SMA-F	Al
WR187	3.95-5.85	187WUCS-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP48	SMA-F	Al
WR187	3.95-5.85	187WUCSM-3	3	±0.9	±0.7	1.20 1.50	FDP48	SMA-M	Al
WR187	3.95-5.85	187WUCSM-6	6	±0.9	±0.7	1.15 1.50	FDP48	SMA-M	Al
WR187	3.95-5.85	187WUCSM-10	10	±0.9	±0.7	1.10 1.60	FDP48	SMA-M	Al
WR187	3.95-5.85	187WUCSM-20	20	±0.9	±0.7	1.10 1.50	FDP48	SMA-M	Al
WR187	3.95-5.85	187WUCSM-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP48	SMA-M	Al
WR159	4.90-7.05	159WUCN-3	3	±0.9	±0.7	1.20 1.50	FDP58	N-F	Al
WR159	4.90-7.05	159WUCN-6	6	±0.9	±0.7	1.15 1.50	FDP58	N-F	Al
WR159	4.90-7.05	159WUCN-10	10	±0.9	±0.7	1.10 1.60	FDP58	N-F	Al
WR159	4.90-7.05	159WUCN-20	20	±0.9	±0.7	1.10 1.50	FDP58	N-F	Al
WR159	4.90-7.05	159WUCN-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP58	N-F	Al
WR159	4.90-7.05	159WUCNM-3	3	±0.9	±0.7	1.20 1.50	FDP58	N-M	Al
WR159	4.90-7.05	159WUCSM-10	10/20	±0.9	±0.7	1.10 1.60	FDP58	SMA-M	Al
WR159	4.90-7.05	159WUCSM-20	10/20	±0.9	±0.7	1.10 1.50	FDP58	SMA-M	Al
WR159	4.90-7.05	159WUCSM-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP58	SMA-M	Al



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR137	5.85-8.20	137WUCN-3	3	±0.9	±0.7	1.20 1.50	FDP70	N-F	Al
WR137	5.85-8.20	137WUCN-6	6	±0.9	±0.7	1.15 1.50	FDP70	N-F	Al
WR137	5.85-8.20	137WUCN-10	10	±0.9	±0.7	1.10 1.60	FDP70	N-F	Al
WR137	5.85-8.20	137WUCN-20	20	±0.9	±0.7	1.10 1.50	FDP70	N-F	Al
WR137	5.85-8.20	137WUCN-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP70	N-F	Al
WR137	5.85-8.20	137WUCNM-3	3	±0.9	±0.7	1.20 1.50	FDP70	N-M	Al
WR137	5.85-8.20	137WUCNM-6	6	±0.9	±0.7	1.15 1.50	FDP70	N-M	Al
WR137	5.85-8.20	137WUCNM-10	10	±0.9	±0.7	1.10 1.60	FDP70	N-M	Al
WR137	5.85-8.20	137WUCNM-20	20	±0.9	±0.7	1.10 1.50	FDP70	N-M	Al
WR137	5.85-8.20	137WUCNM-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP70	N-M	Al
WR137	5.85-8.20	137WUCS-3	3	±0.9	±0.7	1.20 1.50	FDP70	SMA-F	Al
WR137	5.85-8.20	137WUCS-6	6	±0.9	±0.7	1.15 1.50	FDP70	SMA-F	Al
WR137	5.85-8.20	137WUCS-10	10/20	±0.9	±0.7	1.10 1.60	FDP70	SMA-F	Al
WR137	5.85-8.20	137WUCS-20	10/20	±0.9	±0.7	1.10 1.50	FDP70	SMA-F	Al
WR137	5.85-8.20	137WUCS-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP70	SMA-F	Al
WR137	5.85-8.20	137WUCSM-3	3	±0.9	±0.7	1.20 1.50	FDP70	SMA-M	Al
WR137	5.85-8.20	137WUCSM-6	6	±0.9	±0.7	1.15 1.50	FDP70	SMA-M	Al
WR137	5.85-8.20	137WUCSM-10	10	±0.9	±0.7	1.10 1.60	FDP70	SMA-M	Al
WR137	5.85-8.20	137WUCSM-20	20	±0.9	±0.7	1.10 1.50	FDP70	SMA-M	Al
WR137	5.85-8.20	137WUCSM-XX	30/40/50	±0.9	±0.7	1.05 1.50	FDP70	SMA-M	Al
WR112	7.05-10.0	112WUCN-3	3	±0.9	±0.7	1.20 1.50	FBP84	N-F	Al
WR112	7.05-10.0	112WUCN-6	6	±0.9	±0.7	1.15 1.50	FBP84	N-F	Al
WR112	7.05-10.0	112WUCN-10	10	±0.9	±0.7	1.10 1.60	FBP84	N-F	Al
WR112	7.05-10.0	112WUCN-20	20	±0.9	±0.7	1.10 1.50	FBP84	N-F	Al
WR112	7.05-10.0	112WUCN-XX	30/40/50	±0.9	±0.7	1.05 1.50	FBP84	N-F	Al
WR112	7.05-10.0	112WUCNM-3	3	±0.9	±0.7	1.20 1.50	FBP84	N-M	Al
WR112	7.05-10.0	112WUCNM-6	6	±0.9	±0.7	1.15 1.50	FBP84	N-M	Al
WR112	7.05-10.0	112WUCNM-10	10	±0.9	±0.7	1.10 1.60	FBP84	N-M	Al
WR112	7.05-10.0	112WUCNM-20	20	±0.9	±0.7	1.10 1.50	FBP84	N-M	Al
WR112	7.05-10.0	112WUCNM-XX	30/40/50	±0.9	±0.7	1.05 1.50	FBP84	N-M	Al
WR112	7.05-10.0	112WUCS-3	3	±0.9	±0.7	1.20 1.50	FBP84	SMA-F	Al



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WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR112	7.05-10.0	112WUCS-6	6	±0.9	±0.7	1.15 1.50	FBP84	SMA-F	Al
WR112	7.05-10.0	112WUCS-10	10	±0.9	±0.7	1.10 1.60	FBP84	SMA-F	Al
WR112	7.05-10.0	112WUCS-20	20	±0.9	±0.7	1.10 1.50	FBP84	SMA-F	Al
WR112	7.05-10.0	112WUCS-XX	30/40/50	±0.9	±0.7	1.05 1.50	FBP84	SMA-F	Al
WR112	7.05-10.0	112WUCSM-3	3	±0.9	±0.7	1.20 1.50	FBP84	SMA-M	Al
WR112	7.05-10.0	112WUCSM-6	6	±0.9	±0.7	1.15 1.50	FBP84	SMA-M	Al
WR112	7.05-10.0	112WUCSM-10	10	±0.9	±0.7	1.10 1.60	FBP84	SMA-M	Al
WR112	7.05-10.0	112WUCSM-20	20	±0.9	±0.7	1.10 1.50	FBP84	SMA-M	Al
WR112	7.05-10.0	112WUCSM-XX	30/40/50	±0.9	±0.7	1.05 1.50	FBP84	SMA-M	Al
WR90	8.20-12.4	90WUCN-3	3	±0.9	±0.7	1.20 1.50	FBP100	N-F	Al
WR90	8.20-12.4	90WUCN-6	6	±0.9	±0.7	1.15 1.50	FBP100	N-F	Al
WR90	8.20-12.4	90WUCN-10	10/20	±0.9	±0.7	1.10 1.60	FBP100	N-F	Al
WR90	8.20-12.4	90WUCN-20	10/20	±0.9	±0.7	1.10 1.50	FBP100	N-F	Al
WR90	8.20-12.4	90WUCN-XX	30/40/ 50/60	±0.9	±0.7	1.05 1.50	FBP100	N-F	Al
WR90	8.20-12.4	90WUCNM-3	3	±0.9	±0.7	1.20 1.50	FBP100	N-M	Al
WR90	8.20-12.4	90WUCNM-6	6	±0.9	±0.7	1.15 1.50	FBP100	N-M	Al
WR90	8.20-12.4	90WUCNM-10	10	±0.9	±0.7	1.10 1.60	FBP100	N-M	Al
WR90	8.20-12.4	90WUCNM-20	20	±0.9	±0.7	1.10 1.50	FBP100	N-M	Al
WR90	8.20-12.4	90WUCNM-XX	30/40/ 50/60	±0.9	±0.7	1.05 1.50	FBP100	N-M	Al
WR90	8.20-12.4	90WUCS-3	3	±0.9	±0.7	1.20 1.50	FBP100	SMA-F	Al
WR90	8.20-12.4	90WUCS-6	6	±0.9	±0.7	1.15 1.50	FBP100	SMA-F	Al
WR90	8.20-12.4	90WUCS-10	10	±0.9	±0.7	1.10 1.60	FBP100	SMA-F	Al
WR90	8.20-12.4	90WUCS-20	20	±0.9	±0.7	1.10 1.50	FBP100	SMA-F	Al
WR90	8.20-12.4	90WUCS-XX	30/40/ 50/60	±0.9	±0.7	1.05 1.50	FBP100	SMA-F	Al
WR90	8.20-12.4	90WUCSM-3	3	±0.9	±0.7	1.20 1.50	FBP100	SMA-M	Al
WR90	8.20-12.4	90WUCSM-6	6	±0.9	±0.7	1.15 1.50	FBP100	SMA-M	Al
WR90	8.20-12.4	90WUCSM-10	10	±0.9	±0.7	1.10 1.60	FBP100	SMA-M	Al
WR90	8.20-12.4	90WUCSM-20	20	±0.9	±0.7	1.10 1.50	FBP100	SMA-M	Al
WR90	8.20-12.4	90WUCSM-XX	30/40/ 50/60	±0.9	±0.7	1.05 1.50	FBP100	SMA-M	Al



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WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR75	10.0-15.0	75WUCN-3	3	±0.9	±0.7	1.20 1.50	FBP120	N-F	Al
WR75	10.0-15.0	75WUCN-6	6	±0.9	±0.7	1.15 1.50	FBP120	N-F	Al
WR75	10.0-15.0	75WUCN-10	10	±0.9	±0.7	1.10 1.60	FBP120	N-F	Al
WR75	10.0-15.0	75WUCN-20	20	±0.9	±0.7	1.10 1.50	FBP120	N-F	Al
WR75	10.0-15.0	75WUCN-XX	30/40/50	±0.9	±0.7	1.05 1.50	FBP120	N-F	Al
WR75	10.0-15.0	75WUCNM-3	3	±0.9	±0.7	1.20 1.50	FBP120	N-M	Al
WR75	10.0-15.0	75WUCNM-6	6	±0.9	±0.7	1.15 1.50	FBP120	N-M	Al
WR75	10.0-15.0	75WUCNM-10	10	±0.9	±0.7	1.10 1.60	FBP120	N-M	Al
WR75	10.0-15.0	75WUCNM-20	20	±0.9	±0.7	1.10 1.50	FBP120	N-M	Al
WR75	10.0-15.0	75WUCNM-XX	30/40/50	±0.9	±0.7	1.05 1.50	FBP120	N-M	Al
WR75	10.0-15.0	75WUCS-3	3	±0.9	±0.7	1.20 1.50	FBP120	SMA-F	Al
WR75	10.0-15.0	75WUCS-6	6	±0.9	±0.7	1.15 1.50	FBP120	SMA-F	Al
WR75	10.0-15.0	75WUCS-10	10	±0.9	±0.7	1.10 1.60	FBP120	SMA-F	Al
WR75	10.0-15.0	75WUCS-20	20	±0.9	±0.7	1.10 1.50	FBP120	SMA-F	Al
WR75	10.0-15.0	75WUCS-XX	30/40/50	±0.9	±0.7	1.05 1.50	FBP120	SMA-F	Al
WR75	10.0-15.0	75WUCSM-3	3	±0.9	±0.7	1.20 1.50	FBP120	SMA-M	Al
WR75	10.0-15.0	75WUCSM-6	6	±0.9	±0.7	1.15 1.50	FBP120	SMA-M	Al
WR75	10.0-15.0	75WUCSM-10	10	±0.9	±0.7	1.10 1.60	FBP120	SMA-M	Al
WR75	10.0-15.0	75WUCSM-20	20	±0.9	±0.7	1.10 1.50	FBP120	SMA-M	Al
WR75	10.0-15.0	75WUCSM-XX	30/40/50	±0.9	±0.7	1.05 1.50	FBP120	SMA-M	Al
WR62	12.4-18.0	62WUCN-3	3	±0.9	±0.7	1.20 1.50	FBP140	N-F	Al
WR62	12.4-18.0	62WUCN-6	6	±0.9	±0.7	1.15 1.50	FBP140	N-F	Al
WR62	12.4-18.0	62WUCN-10	10	±0.9	±0.7	1.15 1.60	FBP140	N-F	Al
WR62	12.4-18.0	62WUCN-XX	20/30/ 40/50	±0.9	±0.7	1.10 1.50	FBP140	N-F	Al
WR62	12.4-18.0	62WUCNM-3	3	±0.9	±0.7	1.20 1.50	FBP140	N-M	Al
WR62	12.4-18.0	62WUCNM-6	6	±0.9	±0.7	1.15 1.50	FBP140	N-M	Al
WR62	12.4-18.0	62WUCNM-10	10	±0.9	±0.7	1.15 1.60	FBP140	N-M	Al
WR62	12.4-18.0	62WUCNM-XX	20/30/ 40/50	±0.9	±0.7	1.10 1.50	FBP140	N-M	Al
WR62	12.4-18.0	62WUCS-3	3	±0.9	±0.7	1.20 1.50	FBP140	SMA-F	Al
WR62	12.4-18.0	62WUCS-6	6	±0.9	±0.7	1.15 1.50	FBP140	SMA-F	Al
WR62	12.4-18.0	62WUCS-10	10	±0.9	±0.7	1.15 1.60	FBP140	SMA-F	Al



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WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR62	12.4-18.0	62WUCS-XX	20/30/ 40/50	±0.9	±0.7	1.10 1.50	FBP140	SMA-F	Al
WR62	12.4-18.0	62WUCSM-3	3	±0.9	±0.7	1.20 1.50	FBP140	SMA-M	Al
WR62	12.4-18.0	62WUCSM-6	6	±0.9	±0.7	1.15 1.50	FBP140	SMA-M	Al
WR62	12.4-18.0	62WUCSM-10	10	±0.9	±0.7	1.15 1.60	FBP140	SMA-M	Al
WR62	12.4-18.0	62WUCSM-40	40	±0.9	±0.7	1.05 1.50	FBP140	SMA-M	Al
WR62	12.4-18.0	62WUCSM-XX	20/30/ 50	±0.9	±0.7	1.10 1.50	FBP140	SMA-M	Al
WR51	15.0-22.0	51WUCS-3	3	±0.9	±0.7	1.20 1.50	FBP180	SMA-F	Al
WR51	15.0-22.0	51WUCS-6	6	±0.9	±0.7	1.15 1.50	FBP180	SMA-F	Al
WR51	15.0-22.0	51WUCS-10	10	±0.9	±0.7	1.15 1.60	FBP180	SMA-F	Al
WR51	15.0-22.0	51WUCS-XX	20/30/ 40/50	±0.9	±0.7	1.10 1.50	FBP180	SMA-F	Al
WR51	15.0-22.0	51WUCS-40_Cu	40	±0.9	±0.7	1.05 1.50	FBP180	SMA-F	Cu
WR51	15.0-22.0	51WUCSM-3	3	±0.9	±0.7	1.20 1.50	FBP180	SMA-M	Al
WR51	15.0-22.0	51WUCSM-6	6	±0.9	±0.7	1.15 1.50	FBP180	SMA-M	Al
WR51	15.0-22.0	51WUCSM-10	10	±0.9	±0.7	1.15 1.60	FBP180	SMA-M	Al
WR51	15.0-22.0	51WUCSM-XX	20/30/	±0.9	±0.7	1.10 1.50	FBP180	SMA-M	Al
WR51	15.0-22.0	51WUCSM-40	40	±0.9	±0.7	1.05 1.50	FBP180	SMA-M	Al
WR51	15.0-22.0	51WUCSM-50	50	±0.9	±0.7	1.10 1.60	FBP180	SMA-M	Al
WR42	18.0-26.5	42WUCS-3_Cu	3	±1.0	±0.9	1.25 1.60	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WUCS-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WUCS-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WUCS-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WUCSM-3_Cu	3	±1.0	±0.9	1.25 1.60	FBP220	SMA-M	Cu
WR42	18.0-26.5	42WUCSM-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	SMA-M	Cu
WR42	18.0-26.5	42WUCSM-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	SMA-M	Cu
WR42	18.0-26.5	42WUCSM-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	SMA-M	Cu
WR42	18.0-26.5	42WUC3.5-3_Cu	3	±1.0	±0.9	1.25 1.60	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WUC3.5-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WUC3.5-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WUC3.5-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WUC3.5M-3_Cu	3	±1.0	±0.9	1.25 1.60	FBP220	3.5mm-M	Cu
WR42	18.0-26.5	42WUC3.5M-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	3.5mm-M	Cu



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WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR42	18.0-26.5	42WUC3.5M-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	3.5mm-M	Cu
WR42	18.0-26.5	42WUC3.5M-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	3.5mm-M	Cu
WR42	18.0-26.5	42WUCK-3_Cu	3	±1.0	±0.9	1.25 1.60	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WUCK-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WUCK-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WUCK-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WUCKM-3_Cu	3	±1.0	±0.9	1.25 1.60	FBP220	2.92mm-M	Cu
WR42	18.0-26.5	42WUCKM-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	2.92mm-M	Cu
WR42	18.0-26.5	42WUCKM-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	2.92mm-M	Cu
WR42	18.0-26.5	42WUCKM-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	2.92mm-M	Cu
WR34	22.0-33.0	34WUCK-3_Cu	3	±1.0	±0.9	1.25 1.60	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WUCK-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WUCK-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WUCK-20_Cu	20	±1.0	±0.9	1.15 1.60	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WUCK-XX_Cu	30/40/50	±1.0	±0.9	1.10 1.60	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WUCK-3_Cu	3	±1.0	±0.9	1.25 1.60	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WUCK-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WUCK-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WUCK-20_Cu	20	±1.0	±0.9	1.15 1.60	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WUCK-XX_Cu	30/40/50	±1.0	±0.9	1.10 1.60	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WUCKM-3_Cu	3	±1.0	±0.9	1.35 1.60	FBP260	2.92mm-M	Cu
WR34	22.0-33.0	34WUCKM-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP260	2.92mm-M	Cu
WR34	22.0-33.0	34WUCKM-XX_10	10	±1.0	±0.9	1.15 1.70	FBP260	2.92mm-M	Cu
WR34	22.0-33.0	34WUCKM-XX_20	20	±1.0	±0.9	1.15 1.70	FBP260	2.92mm-M	Cu
WR34	22.0-33.0	34WUCKM-XX_Cu	30/40/50	±1.0	±0.9	1.10 1.60	FBP260	2.92mm-M	Cu
WR28	26.5-40.0	28WUCK-3_Cu	3	±1.0	±0.9	1.35 1.80	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WUCK-6_Cu	6	±1.0	±0.9	1.20 1.80	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WUCK-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WUCK-20_Cu	20	±1.0	±0.9	1.15 1.80	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WUCK-XX_Cu	30/40/50	±1.0	±0.9	1.10 1.80	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WUCKM-3_Cu	3	±1.0	±0.9	1.35 1.80	FBP320	2.92mm-M	Cu



WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR28	26.5-40.0	28WUCKM-6_Cu	6	±1.0	±0.9	1.20 1.80	FBP320	2.92mm-M	Cu
WR28	26.5-40.0	28WUCKM-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP320	2.92mm-M	Cu
WR28	26.5-40.0	28WUCKM-20_Cu	20	±1.0	±0.9	1.15 1.80	FBP320	2.92mm-M	Cu
WR28	26.5-40.0	28WUCKM-XX_Cu	30/40/50	±1.0	±0.9	1.10 1.80	FBP320	2.92mm-M	Cu
WR28	26.5-40.0	28WUC2.4-3_Cu	3	±1.0	±0.9	1.35 1.80	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WUC2.4-6_Cu	6	±1.0	±0.9	1.20 1.80	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WUC2.4-XX_Cu	10/20	±1.0	±0.9	1.15 1.80	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WUC2.4-XX_Cu	30/40/50	±1.0	±0.9	1.10 1.80	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WUC2.4M-3_Cu	3	±1.0	±0.9	1.35 1.80	FBP320	2.4mm-M	Cu
WR28	26.5-40.0	28WUC2.4M-6_Cu	6	±1.0	±0.9	1.25 1.80	FBP320	2.4mm-M	Cu
WR28	26.5-40.0	28WUC2.4M-XX_Cu	10/20	±1.0	±0.9	1.15 1.80	FBP320	2.4mm-M	Cu
WR28	26.5-40.0	28WUC2.4M-XX_Cu	30/40/50	±1.0	±0.9	1.10 1.80	FBP320	2.4mm-M	Cu
WR22	33.0-50.0	22WUC2.4-3_Cu	3	±1.0	±0.9	1.35 2.0	FUGP400	2.4mm-F	Cu
WR22	33.0-50.0	22WUC2.4-6_Cu	6	±1.0	±0.9	1.25 2.0	FUGP400	2.4mm-F	Cu
WR22	33.0-50.0	22WUC2.4-XX_Cu	10/20	±1.0	±0.9	1.2 2.0	FUGP400	2.4mm-F	Cu
WR22	33.0-50.0	22WUC2.4-XX_Cu	30/40/50	±1.0	±0.9	1.15 2.0	FUGP400	2.4mm-F	Cu
WR19	40.0-50.0	19WUC2.4-3_Cu	3	±1.0	±0.9	1.35 2.0	FUGP500	2.4mm-F	Cu
WR19	40.0-50.0	19WUC2.4-6_Cu	6	±1.0	±0.9	1.25 2.0	FUGP500	2.4mm-F	Cu
WR19	40.0-50.0	19WUC2.4-XX_Cu	10/20	±1.0	±0.9	1.2 2.0	FUGP500	2.4mm-F	Cu
WR19	40.0-50.0	19WUC2.4-XX_Cu	30/40/50	±1.0	±0.9	1.15 2.0	FUGP500	2.4mm-F	Cu
WR19	40.0-60.0	19WUC1.85-3_Cu	3	±1.0	±0.9	1.35 2.0	FUGP500	1.85mm-F	Cu
WR19	40.0-60.0	19WUC1.85-6_Cu	6	±1.0	±0.9	1.25 2.0	FUGP500	1.85mm-F	Cu
WR19	40.0-60.0	19WUC1.85-XX_Cu	10/20	±1.0	±0.9	1.2 2.0	FUGP500	1.85mm-F	Cu
WR19	40.0-60.0	19WUC1.85-XX_Cu	30/40/50	±1.0	±0.9	1.15 2.0	FUGP500	1.85mm-F	Cu
WR15	50.0-65.0	15WUC1.85-3_Cu	3	±1.0	±0.9	1.35 2.0	FUGP620	1.85mm-F	Cu
WR15	50.0-65.0	15WUC1.85-6_Cu	6	±1.0	±0.9	1.25 2.0	FUGP620	1.85mm-F	Cu
WR15	50.0-65.0	15WUC1.85-XX_Cu	10/20	±1.0	±0.9	1.2 2.0	FUGP620	1.85mm-F	Cu
WR15	50.0-65.0	15WUC1.85-XX_Cu	30/40/50	±1.0	±0.9	1.15 2.0	FUGP620	1.85mm-F	Cu



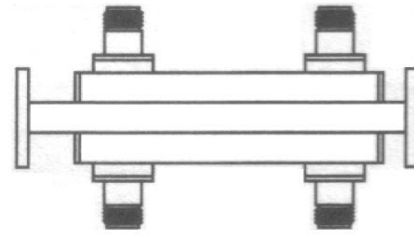
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WG Coupler

WDUCx-XX Type



Model Information

Example Part Number:

430

WDUCx

-XX

Waveguide Size: WR430 to WR15

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male; S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male; K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female; 2.4M=2.4mm-Male; 1.85=1.85mm-Female; 1.85M=1.85mm-Male;

Coupling(dB)

Directivity: Depending on the Return Loss of coaxial load connected to reverse coupling port.

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	M.L. S.L. Max.	Flange	Con.	Mat.
WR430	1.70-2.60	430WDUCN-6	6	±0.9	±0.7	1.15 1.50	FDP22	N-F	Al
WR430	1.70-2.60	430WDUCN-10	10	±0.9	±0.7	1.10 1.60	FDP22	N-F	Al
WR430	1.70-2.60	430WDUCN-20	20	±0.9	±0.7	1.10 1.50	FDP22	N-F	Al
WR430	1.70-2.60	430WDUCN-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP22	N-F	Al
WR430	1.70-2.60	430WDUCS-6	6	±0.9	±0.7	1.15 1.50	FDP22	SMA-F	Al
WR430	1.70-2.60	430WDUCS-10	10	±0.9	±0.7	1.10 1.60	FDP22	SMA-F	Al
WR430	1.70-2.60	430WDUCS-20	20	±0.9	±0.7	1.10 1.50	FDP22	SMA-F	Al
WR430	1.70-2.60	430WDUCS-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP22	SMA-F	Al
WR340	2.20-3.30	340WDUCN-6	6	±0.9	±0.7	1.15 1.50	FDP26	N-F	Al
WR340	2.20-3.30	340WDUCN-10	10	±0.9	±0.7	1.10 1.60	FDP26	N-F	Al
WR340	2.20-3.30	340WDUCN-20	20	±0.9	±0.7	1.10 1.50	FDP26	N-F	Al
WR340	2.20-3.30	340WDUCN-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP26	N-F	Al



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR340	2.20-3.30	340WDUCS-6	6	±0.9	±0.7	1.15 1.50	FDP26	SMA-F	Al
WR340	2.20-3.30	340WDUCS-10	10	±0.9	±0.7	1.10 1.60	FDP26	SMA-F	Al
WR340	2.20-3.30	340WDUCS-20	20	±0.9	±0.7	1.10 1.50	FDP26	SMA-F	Al
WR340	2.20-3.30	340WDUCS-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP26	SMA-F	Al
WR284	2.60-3.95	284WDUCN-6	6	±0.9	±0.7	1.15 1.50	FDP32	N-F	Al
WR284	2.60-3.95	284WDUCN-10	10	±0.9	±0.7	1.10 1.60	FDP32	N-F	Al
WR284	2.60-3.95	284WDUCN-20	20	±0.9	±0.7	1.10 1.50	FDP32	N-F	Al
WR284	2.60-3.95	284WDUCN-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP32	N-F	Al
WR284	2.60-3.95	284WDUCS-6	6	±0.9	±0.7	1.15 1.50	FDP32	SMA-F	Al
WR284	2.60-3.95	284WDUCS-10	10	±0.9	±0.7	1.10 1.60	FDP32	SMA-F	Al
WR284	2.60-3.95	284WDUCS-20	20	±0.9	±0.7	1.10 1.50	FDP32	SMA-F	Al
WR284	2.60-3.95	284WDUCS-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP32	SMA-F	Al
WR229	3.30-4.90	229WDUCN-6	6	±0.9	±0.7	1.15 1.50	FDP40	N-F	Al
WR229	3.30-4.90	229WDUCN-10	10	±0.9	±0.7	1.10 1.60	FDP40	N-F	Al
WR229	3.30-4.90	229WDUCN-20	20	±0.9	±0.7	1.10 1.50	FDP40	N-F	Al
WR229	3.30-4.90	229WDUCN-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP40	N-F	Al
WR229	3.30-4.90	229WDUCNM-6	6	±0.9	±0.7	1.15 1.50	FDP40	N-M	Al
WR229	3.30-4.90	229WDUCNM-10	10	±0.9	±0.7	1.10 1.60	FDP40	N-M	Al
WR229	3.30-4.90	229WDUCNM-20	20	±0.9	±0.7	1.10 1.50	FDP40	N-M	Al
WR229	3.30-4.90	229WDUCNM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP40	N-M	Al
WR229	3.30-4.90	229WDUCS-6	6	±0.9	±0.7	1.15 1.50	FDP40	SMA-F	Al
WR229	3.30-4.90	229WDUCS-10	10	±0.9	±0.7	1.10 1.60	FDP40	SMA-F	Al
WR229	3.30-4.90	229WDUCS-20	20	±0.9	±0.7	1.10 1.50	FDP40	SMA-F	Al
WR229	3.30-4.90	229WDUCS-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP40	SMA-F	Al
WR229	3.30-4.90	229WDUCSM-6	6	±0.9	±0.7	1.15 1.50	FDP40	SMA-M	Al
WR229	3.30-4.90	229WDUCSM-10	10	±0.9	±0.7	1.10 1.60	FDP40	SMA-M	Al
WR229	3.30-4.90	229WDUCSM-20	20	±0.9	±0.7	1.10 1.50	FDP40	SMA-M	Al
WR229	3.30-4.90	229WDUCSM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP40	SMA-M	Al
WR187	3.95-5.85	187WDUCN-6	6	±0.9	±0.7	1.15 1.50	FDP48	N-F	Al
WR187	3.95-5.85	187WDUCN-10	10	±0.9	±0.7	1.10 1.60	FDP48	N-F	Al
WR187	3.95-5.85	187WDUCN-20	20	±0.9	±0.7	1.10 1.50	FDP48	N-F	Al



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WR187	3.95-5.85	187WDUCN-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP48	N-F	Al
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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR187	3.95-5.85	187WDUCNM-6	6	±0.9	±0.7	1.15 1.50	FDP48	N-M	Al
WR187	3.95-5.85	187WDUCNM-10	10	±0.9	±0.7	1.10 1.60	FDP48	N-M	Al
WR187	3.95-5.85	187WDUCNM-20	20	±0.9	±0.7	1.10 1.50	FDP48	N-M	Al
WR187	3.95-5.85	187WDUCNM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP48	N-M	Al
WR187	3.95-5.85	187WDUCS-6	6	±0.9	±0.7	1.15 1.50	FDP48	SMA-F	Al
WR187	3.95-5.85	187WDUCS-10	10	±0.9	±0.7	1.10 1.60	FDP48	SMA-F	Al
WR187	3.95-5.85	187WDUCS-20	20	±0.9	±0.7	1.10 1.50	FDP48	SMA-F	Al
WR187	3.95-5.85	187WDUCS-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP48	SMA-F	Al
WR187	3.95-5.85	187WDUCSM-6	6	±0.9	±0.7	1.15 1.50	FDP48	SMA-M	Al
WR187	3.95-5.85	187WDUCSM-10	10	±0.9	±0.7	1.10 1.60	FDP48	SMA-M	Al
WR187	3.95-5.85	187WDUCSM-20	20	±0.9	±0.7	1.10 1.50	FDP48	SMA-M	Al
WR187	3.95-5.85	187WDUCSM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP48	SMA-M	Al
WR159	4.90-7.05	159WDUCN-6	6	±0.9	±0.7	1.15 1.50	FDP58	N-F	Al
WR159	4.90-7.05	159WDUCN-10	10	±0.9	±0.7	1.10 1.60	FDP58	N-F	Al
WR159	4.90-7.05	159WDUCN-20	20	±0.9	±0.7	1.10 1.50	FDP58	N-F	Al
WR159	4.90-7.05	159WDUCN-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP58	N-F	Al
WR159	4.90-7.05	159WDUCNM-6	6	±0.9	±0.7	1.15 1.50	FDP58	N-M	Al
WR159	4.90-7.05	159WDUCNM-10	10	±0.9	±0.7	1.10 1.60	FDP58	N-M	Al
WR159	4.90-7.05	159WDUCNM-20	20	±0.9	±0.7	1.10 1.50	FDP58	N-M	Al
WR159	4.90-7.05	159WDUCNM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP58	N-M	Al
WR159	4.90-7.05	159WDUCS-6	6	±0.9	±0.7	1.15 1.50	FDP58	SMA-F	Al
WR159	4.90-7.05	159WDUCS-10	10	±0.9	±0.7	1.10 1.60	FDP58	SMA-F	Al
WR159	4.90-7.05	159WDUCS-20	20	±0.9	±0.7	1.10 1.50	FDP58	SMA-F	Al
WR159	4.90-7.05	159WDUCS-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP58	SMA-F	Al
WR159	4.90-7.05	159WDUCSM-6	6	±0.9	±0.7	1.15 1.50	FDP58	SMA-M	Al
WR159	4.90-7.05	159WDUCSM-10	10	±0.9	±0.7	1.10 1.60	FDP58	SMA-M	Al
WR159	4.90-7.05	159WDUCSM-20	20	±0.9	±0.7	1.10 1.50	FDP58	SMA-M	Al
WR159	4.90-7.05	159WDUCSM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP58	SMA-M	Al
WR137	5.85-8.20	137WDUCN-6	6	±0.9	±0.7	1.15 1.50	FDP70	N-F	Al



WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR137	5.85-8.20	137WDUCN-10	10	±0.9	±0.7	1.10 1.60	FDP70	N-F	Al
WR137	5.85-8.20	137WDUCN-20	20	±0.9	±0.7	1.10 1.50	FDP70	N-F	Al
WR137	5.85-8.20	137WDUCN-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP70	N-F	Al
WR137	5.85-8.20	137WDUCNM-6	6	±0.9	±0.7	1.15 1.50	FDP70	N-M	Al
WR137	5.85-8.20	137WDUCNM-10	10	±0.9	±0.7	1.10 1.60	FDP70	N-M	Al
WR137	5.85-8.20	137WDUCNM-20	20	±0.9	±0.7	1.10 1.50	FDP70	N-M	Al
WR137	5.85-8.20	137WDUCNM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP70	N-M	Al
WR137	5.85-8.20	137WDUCS-6	6	±0.9	±0.7	1.15 1.50	FDP70	SMA-F	Al
WR137	5.85-8.20	137WDUCS-10	10	±0.9	±0.7	1.10 1.60	FDP70	SMA-F	Al
WR137	5.85-8.20	137WDUCS-20	20	±0.9	±0.7	1.10 1.50	FDP70	SMA-F	Al
WR137	5.85-8.20	137WDUCS-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP70	SMA-F	Al
WR137	5.85-8.20	137WDUCSM-6	6	±0.9	±0.7	1.15 1.50	FDP70	SMA-M	Al
WR137	5.85-8.20	137WDUCSM-10	10	±0.9	±0.7	1.10 1.60	FDP70	SMA-M	Al
WR137	5.85-8.20	137WDUCSM-20	20	±0.9	±0.7	1.10 1.50	FDP70	SMA-M	Al
WR137	5.85-8.20	137WDUCSM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FDP70	SMA-M	Al
WR112	7.05-10.0	112WDUCN-6	6	±0.9	±0.7	1.15 1.50	FBP84	N-F	Al
WR112	7.05-10.0	112WDUCN-10	10	±0.9	±0.7	1.10 1.60	FBP84	N-F	Al
WR112	7.05-10.0	112WDUCN-20	20	±0.9	±0.7	1.10 1.50	FBP84	N-F	Al
WR112	7.05-10.0	112WDUCN-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP84	N-F	Al
WR112	7.05-10.0	112WDUCNM-6	6	±0.9	±0.7	1.15 1.50	FBP84	N-M	Al
WR112	7.05-10.0	112WDUCNM-10	10	±0.9	±0.7	1.10 1.60	FBP84	N-M	Al
WR112	7.05-10.0	112WDUCNM-20	20	±0.9	±0.7	1.10 1.50	FBP84	N-M	Al
WR112	7.05-10.0	112WDUCNM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP84	N-M	Al
WR112	7.05-10.0	112WDUCS-6	6	±0.9	±0.7	1.15 1.50	FBP84	SMA-F	Al
WR112	7.05-10.0	112WDUCS-10	10	±0.9	±0.7	1.10 1.60	FBP84	SMA-F	Al
WR112	7.05-10.0	112WDUCS-20	20	±0.9	±0.7	1.10 1.50	FBP84	SMA-F	Al
WR112	7.05-10.0	112WDUCS-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP84	SMA-F	Al
WR112	7.05-10.0	112WDUCSM-6	6	±0.9	±0.7	1.15 1.50	FBP84	SMA-M	Al
WR112	7.05-10.0	112WDUCSM-10	10	±0.9	±0.7	1.10 1.60	FBP84	SMA-M	Al
WR112	7.05-10.0	112WDUCSM-20	20	±0.9	±0.7	1.10 1.50	FBP84	SMA-M	Al



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR112	7.05-10.0	112WDUCSM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP84	SMA-M	Al
WR90	8.20-12.4	90WDUCN-6	6	±0.9	±0.7	1.15 1.50	FBP100	N-F	Al
WR90	8.20-12.4	90WDUCN-10	10	±0.9	±0.7	1.10 1.60	FBP100	N-F	Al
WR90	8.20-12.4	90WDUCN-20	20	±0.9	±0.7	1.10 1.50	FBP100	N-F	Al
WR90	8.20-12.4	90WDUCN-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP100	N-F	Al
WR90	8.20-12.4	90WDUCNM-6	6	±0.9	±0.7	1.15 1.50	FBP100	N-M	Al
WR90	8.20-12.4	90WDUCNM-10	10	±0.9	±0.7	1.10 1.60	FBP100	N-M	Al
WR90	8.20-12.4	90WDUCNM-20	20	±0.9	±0.7	1.10 1.50	FBP100	N-M	Al
WR90	8.20-12.4	90WDUCNM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP100	N-M	Al
WR90	8.20-12.4	90WDUCS-6	6	±0.9	±0.7	1.15 1.50	FBP100	SMA-F	Al
WR90	8.20-12.4	90WDUCS-10	10	±0.9	±0.7	1.10 1.60	FBP100	SMA-F	Al
WR90	8.20-12.4	90WDUCS-20	20	±0.9	±0.7	1.10 1.50	FBP100	SMA-F	Al
WR90	8.20-12.4	90WDUCS-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP100	SMA-F	Al
WR90	8.20-12.4	90WDUCSM-6	6	±0.9	±0.7	1.15 1.50	FBP100	SMA-M	Al
WR90	8.20-12.4	90WDUCSM-10	10	±0.9	±0.7	1.10 1.60	FBP100	SMA-M	Al
WR90	8.20-12.4	90WDUCSM-20	20	±0.9	±0.7	1.10 1.50	FBP100	SMA-M	Al
WR90	8.20-12.4	90WDUCSM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP100	SMA-M	Al
WR75	10.0-15.0	75WDUCN-6	6	±0.9	±0.7	1.15 1.50	FBP120	N-F	Al
WR75	10.0-15.0	75WDUCN-10	10	±0.9	±0.7	1.10 1.60	FBP120	N-F	Al
WR75	10.0-15.0	75WDUCN-20	20	±0.9	±0.7	1.10 1.50	FBP120	N-F	Al
WR75	10.0-15.0	75WDUCN-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP120	N-F	Al
WR75	10.0-15.0	75WDUCNM-6	6	±0.9	±0.7	1.15 1.50	FBP120	N-M	Al
WR75	10.0-15.0	75WDUCNM-10	10	±0.9	±0.7	1.10 1.60	FBP120	N-M	Al
WR75	10.0-15.0	75WDUCNM-20	20	±0.9	±0.7	1.10 1.50	FBP120	N-M	Al
WR75	10.0-15.0	75WDUCNM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP120	N-M	Al
WR75	10.0-15.0	75WDUCS-6	6	±0.9	±0.7	1.15 1.50	FBP120	SMA-F	Al
WR75	10.0-15.0	75WDUCS-10	10	±0.9	±0.7	1.10 1.60	FBP120	SMA-F	Al
WR75	10.0-15.0	75WDUCS-20	20	±0.9	±0.7	1.10 1.50	FBP120	SMA-F	Al
WR75	10.0-15.0	75WDUCS-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP120	SMA-F	Al



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR75	10.0-15.0	75WDUCSM-6	6	±0.9	±0.7	1.15 1.50	FBP120	SMA-M	Al
WR75	10.0-15.0	75WDUCSM-10	10	±0.9	±0.7	1.10 1.60	FBP120	SMA-M	Al
WR75	10.0-15.0	75WDUCSM-20	20	±0.9	±0.7	1.10 1.50	FBP120	SMA-M	Al
WR75	10.0-15.0	75WDUCSM-XX	30/ 40/50	±0.9	±0.7	1.05 1.50	FBP120	SMA-M	Al
WR62	12.4-18.0	62WDUCN-6	6	±0.9	±0.7	1.15 1.50	FBP140	N-F	Al
WR62	12.4-18.0	62WDUCN-10	10	±0.9	±0.7	1.10 1.60	FBP140	N-F	Al
WR62	12.4-18.0	62WDUCN-XX	20/30/ 40/50	±0.9	±0.7	1.10 1.50	FBP140	N-F	Al
WR62	12.4-18.0	62WDUCNM-6	6	±0.9	±0.7	1.15 1.50	FBP140	N-M	Al
WR62	12.4-18.0	62WDUCNM-10	10	±0.9	±0.7	1.10 1.60	FBP140	N-M	Al
WR62	12.4-18.0	62WDUCNM-XX	20/30/ 40/50	±0.9	±0.7	1.10 1.50	FBP140	N-M	Al
WR62	12.4-18.0	62WDUCS-6	6	±0.9	±0.7	1.15 1.50	FBP140	SMA-F	Al
WR62	12.4-18.0	62WDUCS-10	10	±0.9	±0.7	1.10 1.60	FBP140	SMA-F	Al
WR62	12.4-18.0	62WDUCS-XX	20/30/ 40/50	±0.9	±0.7	1.10 1.50	FBP140	SMA-F	Al
WR62	12.4-18.0	62WDUCSM-6	6	±0.9	±0.7	1.15 1.50	FBP140	SMA-M	Al
WR62	12.4-18.0	62WDUCSM-10	10	±0.9	±0.7	1.10 1.60	FBP140	SMA-M	Al
WR62	12.4-18.0	62WDUCSM-XX	20/30/ 40/50	±0.9	±0.7	1.10 1.50	FBP140	SMA-M	Al
WR51	15.0-22.0	51WDUCS-6	6	±0.9	±0.7	1.15 1.50	FBP180	SMA-F	Al
WR51	15.0-22.0	51WDUCS-10	10	±0.9	±0.7	1.10 1.60	FBP180	SMA-F	Al
WR51	15.0-22.0	51WDUCS-XX	20/30/ 40/50	±0.9	±0.7	1.10 1.50	FBP180	SMA-F	Al
WR51	15.0-22.0	51WDUCSM-6	6	±0.9	±0.7	1.15 1.50	FBP180	SMA-M	Al
WR51	15.0-22.0	51WDUCSM-10	10	±0.9	±0.7	1.10 1.60	FBP180	SMA-M	Al
WR51	15.0-22.0	51WDUCSM-XX	20/30/ 40/50	±0.9	±0.7	1.10 1.50	FBP180	SMA-M	Al
WR42	18.0-26.5	42WDUCS-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WDUCS-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WDUCS-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WDUCSM-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	SMA-M	Cu
WR42	18.0-26.5	42WDUCSM-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	SMA-M	Cu
WR42	18.0-26.5	42WDUCSM-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	SMA-M	Cu
WR42	18.0-26.5	42WDUC3.5-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WDUC3.5-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WDUC3.5-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	3.5mm-F	Cu



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR42	18.0-26.5	42WDUC3.5M-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	3.5mm-M	Cu
WR42	18.0-26.5	42WDUC3.5M-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	3.5mm-M	Cu
WR42	18.0-26.5	42WDUC3.5M-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	3.5mm-M	Cu
WR42	18.0-26.5	42WDUCK-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WDUCK-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WDUCK-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WDUCKM-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP220	2.92mm-M	Cu
WR42	18.0-26.5	42WDUCKM-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP220	2.92mm-M	Cu
WR42	18.0-26.5	42WDUCKM-XX_Cu	20/30/ 40/50	±1.0	±0.9	1.10 1.60	FBP220	2.92mm-M	Cu
WR34	22.0-33.0	34WDUCK-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WDUCK-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WDUCK-20_Cu	20	±1.0	±0.9	1.15 1.60	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WDUCK-XX_Cu	30/ 40/50	±1.0	±0.9	1.10 1.60	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WDUCKM-6_Cu	6	±1.0	±0.9	1.20 1.60	FBP260	2.92mm-M	Cu
WR34	22.0-33.0	34WDUCKM-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP260	2.92mm-M	Cu
WR34	22.0-33.0	34WDUCKM-20_Cu	20	±1.0	±0.9	1.15 1.60	FBP260	2.92mm-M	Cu
WR34	22.0-33.0	34WDUCKM-XX_Cu	30/ 40/50	±1.0	±0.9	1.10 1.60	FBP260	2.92mm-M	Cu
WR28	26.5-40.0	28WDUCK-6_Cu	6	±1.0	±0.9	1.20 1.80	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDUCK-10_Cu	10	±1.0	±0.9	1.15 1.70	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDUCK-20_Cu	20	±1.0	±0.9	1.15 1.80	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDUCK-XX_Cu	30/ 40/50	±1.0	±0.9	1.10 1.80	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDUCKM-6_Cu	6	±1.0	±0.9	1.20 1.80	FBP320	2.92mm-M	Cu
WR28	26.5-40.0	28WDUCKM-XX_Cu	10/20	±1.0	±0.9	1.15 1.80	FBP320	2.92mm-M	Cu
WR28	26.5-40.0	28WDUCKM-XX_Cu	30/ 40/50	±1.0	±0.9	1.10 1.80	FBP320	2.92mm-M	Cu
WR28	26.5-40.0	28WDUC2.4-6_Cu	6	±1.0	±0.9	1.20 1.80	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WDUC2.4-XX_Cu	10/20	±1.0	±0.9	1.15 1.80	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WDUC2.4-XX_Cu	30/ 40/50	±1.0	±0.9	1.10 1.80	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WDUC2.4M-6_Cu	6	±1.0	±0.9	1.20 1.80	FBP320	2.4mm-M	Cu
WR28	26.5-40.0	28WDUC2.4M-XX_Cu	10/20	±1.0	±0.9	1.15 1.80	FBP320	2.4mm-M	Cu



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR28	26.5-40.0	28WDUC2.4M-XX_Cu	30/ 40/50	±1.0	±0.9	1.10 1.80	FBP320	2.4mm-M	Cu
WR22	33.0-50.0	22WDUC2.4-6_Cu	6	±1.0	±0.9	1.25 1.80	FUGP400	2.4mm-F	Cu
WR22	33.0-50.0	22WDUC2.4-XX_Cu	10/20	±1.0	±0.9	1.20 1.80	FUGP400	2.4mm-F	Cu
WR22	33.0-50.0	22WDUC2.4-XX_Cu	30/ 40/50	±1.0	±0.9	1.15 1.80	FUGP400	2.4mm-F	Cu
WR19	40.0-50.0	19WDUC2.4-6_Cu	6	±1.0	±0.9	1.25 1.80	FUGP500	2.4mm-F	Cu
WR19	40.0-50.0	19WDUC2.4-XX_Cu	10/20	±1.0	±0.9	1.20 2.0	FUGP500	2.4mm-F	Cu
WR19	40.0-50.0	19WDUC2.4-XX_Cu	30/ 40/50	±1.0	±0.9	1.15 2.0	FUGP500	2.4mm-F	Cu
WR19	40.0-60.0	19WDUC1.85-6_Cu	6	±1.0	±0.9	1.25 1.80	FUGP500	1.85mm-F	Cu
WR19	40.0-60.0	19WDUC1.85-XX_Cu	10/20	±1.0	±0.9	1.20 2.0	FUGP500	1.85mm-F	Cu
WR19	40.0-60.0	19WDUC1.85-XX_Cu	30/ 40/50	±1.0	±0.9	1.15 2.0	FUGP500	1.85mm-F	Cu
WR15	50.0-65.0	15WDUC1.85-6_Cu	6	±1.0	±0.9	1.25 1.80	FUGP620	1.85mm-F	Cu
WR15	50.0-65.0	15WDUC1.85-XX_Cu	10/20	±1.0	±0.9	1.20 2.0	FUGP620	1.85mm-F	Cu
WR15	50.0-65.0	15WDUC1.85-XX_Cu	30/ 40/50	±1.0	±0.9	1.15 2.0	FUGP620	1.85mm-F	Cu



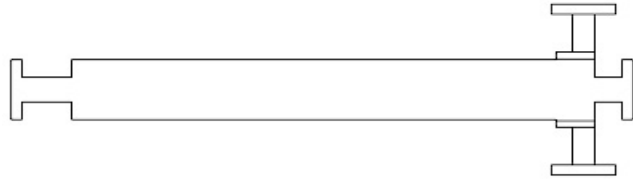
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WG Coupler

WDC-XX Type



Model Information

Example Part Number:

284

WDC

-XX

Waveguide Size: WR284 to WR10

Product Code

Coupling(dB)

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Mat.
WR284	2.60-3.95	284WDC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FDP32	Al
WR229	3.30-4.90	229WDC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FDP40	Al
WR187	3.95-5.85	187WDC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FDP48	Al
WR159	4.90-7.05	159WDC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FDP58	Al
WR137	5.85-8.20	137WDC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FDP70	Al
WR112	7.05-10.0	112WDC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FBP84	Al
WR90	8.20-12.4	90WDC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.1	FBP100	Al
WR75	10.0-15.0	75WDC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.15	FBP120	Al
WR62	12.4-18.0	62WDC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.15	FBP140	Al
WR51	15.0-22.0	51WDC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.15	FBP180	Al
WR42	18.0-26.5	42WDC-XX	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.15	FBP220	Al



WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Mat.
WR34	22.0-33.0	34WDC-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.15	FBP260	Cu
WR28	26.5-40.0	28WDC-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.15	FBP320	Cu
WR22	33.0-50.0	22WDC-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP400	Cu
WR19	40.0-60.0	19WDC-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP500	Cu
WR15	50.0-75.0	15WDC-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP620	Cu
WR12	60.0-90.0	12WDC-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP740	Cu
WR10	75.0-110.0	10WDC-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.2	FUGP900	Cu



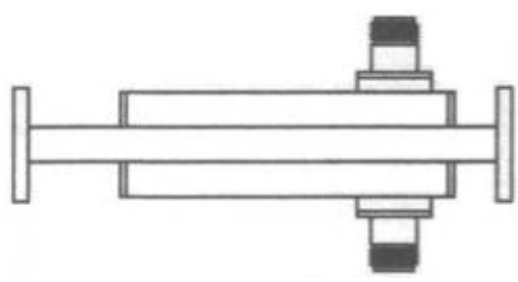
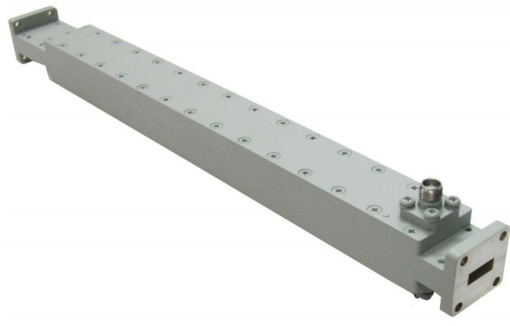
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WG Coupler

WDCx-XX Type



Model Information

Example Part Number: 284 WDCx -XX

Waveguide Size: WR284 to WR15

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male; S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male; K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female; 2.4M=2.4mm-Male; 1.85=1.85mm-Female; 1.85M=1.85mm-Male;

Coupling(dB)

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR284	2.60-3.95	284WDCN-XX	6/10/20/30/40/50	±0.9	±0.7	30	1.05/1.25	FDP32	N-F	Al
WR284	2.60-3.95	284WDSCS-XX	6/10/20/30/40/50	±0.9	±0.7	30	1.05/1.25	FDP32	SMA-F	Al
WR229	3.30-4.90	229WDCN-XX	6/10/20/30/40/50	±0.9	±0.7	30	1.05/1.25	FDP40	N-F	Al
WR229	3.30-4.90	229WDCNM-XX	6/10/20/30/40/50	±0.9	±0.7	30	1.05/1.25	FDP40	N-M	Al
WR229	3.30-4.90	229WDSCS-XX	6/10/20/30/40/50	±0.9	±0.7	30	1.05/1.25	FDP40	SMA-F	Al
WR229	3.30-4.90	229WDSCSM-XX	6/10/20/30/40/50	±0.9	±0.7	30	1.05/1.25	FDP40	SMA-M	Al
WR229	3.30-4.90	229WDSCSM-XX	6/10/20/30/40/50	±0.9	±0.7	30	1.05/1.25	FDP40	SMA-M	Al
WR187	3.95-5.85	187WDCN-XX	6/10/20/30/40/50	±0.9	±0.7	30	1.05/1.25	FDP48	N-F	Al
WR187	3.95-5.85	187WDCNM-XX	6/10/20/30/40/50	±0.9	±0.7	30	1.05/1.25	FDP48	N-M	Al
WR187	3.95-5.85	187WDSCS-XX	6/10/20/30/40/50	±0.9	±0.7	30	1.05/1.25	FDP48	SMA-F	Al
WR187	3.95-5.85	187WDSCSM-XX	6/10/20/30/40/50	±0.9	±0.7	30	1.05/1.25	FDP48	SMA-M	Al

WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR159	4.90-7.05	159WDCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	N-F	Al
WR159	4.90-7.05	159WDCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	N-M	Al
WR159	4.90-7.05	159WDCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	SMA-F	Al
WR159	4.90-7.05	159WDCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	SMA-M	Al
WR137	5.85-8.20	137WDCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	N-F	Al
WR137	5.85-8.20	137WDCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	N-M	Al
WR137	5.85-8.20	137WDCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	SMA-F	Al
WR137	5.85-8.20	137WDCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	SMA-M	Al
WR112	7.05-10.0	112WDCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP84	N-F	Al
WR112	7.05-10.0	112WDCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP84	N-M	Al
WR112	7.05-10.0	112WDCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP84	SMA-F	Al
WR112	7.05-10.0	112WDCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP84	SMA-M	Al
WR90	8.20-12.4	90WDCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP100	N-F	Al
WR90	8.20-12.4	90WDCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP100	N-M	Al
WR90	8.20-12.4	90WDCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP100	SMA-F	Al
WR90	8.20-12.4	90WDCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP100	SMA-M	Al
WR75	10.0-15.0	75WDCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP120	N-F	Al
WR75	10.0-15.0	75WDCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP120	N-M	Al
WR75	10.0-15.0	75WDCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP120	SMA-F	Al
WR62	12.4-18.0	62WDCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.25	FBP140	N-F	Al
WR62	12.4-18.0	62WDCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.25	FBP140	N-M	Al



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EIA WR	Freq.(GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR62	12.4-18.0	62WDCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.25	FBP140	SMA-F	Al
WR62	12.4-18.0	62WDCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.25	FBP140	SMA-M	Al
WR51	15.0-22.0	51WDCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.25	FBP180	SMA-F	Al
WR51	15.0-22.0	51WDCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.1 1.25	FBP180	SMA-M	Al
WR42	18.0-26.5	42WDCS-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.3	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WDCSM-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.3	FBP220	SMA-M	Cu
WR42	18.0-26.5	42WDC3.5-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.3	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WDC3.5-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.3	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WDC3.5M-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.3	FBP220	3.5mm-M	Cu
WR42	18.0-26.5	42WDCK-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.3	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WDCKM-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.3	FBP220	2.92mm-M	Cu
WR34	22.0-33.0	34WDCK-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.25	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WDCKM-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.25	FBP260	2.92mm-M	Cu
WR28	26.5-40.0	28WDCK-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.3	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDCKM-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.3	FBP320	2.92mm-M	Cu
WR28	26.5-40.0	28WDC2.4-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.3	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WDC2.4M-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.1 1.3	FBP320	2.4mm-M	Cu
WR22	33.0-50.0	22WDC2.4-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.5	FUGP400	2.4mm-F	Cu
WR19	40.0-50.0	19WDC2.4-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.5	FUGP500	2.4mm-F	Cu
WR19	40.0-60.0	19WDC1.85-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.5	FUGP500	1.85mm-F	Cu
WR15	50.0-65.0	15WDC1.85-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.5	FUGP620	1.85mm-F	Cu



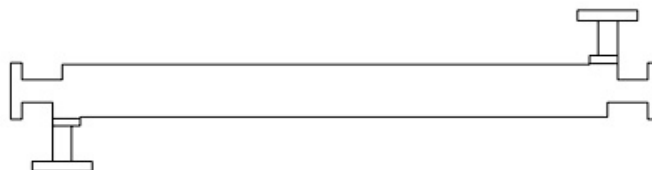
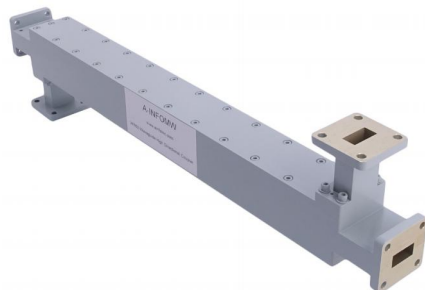
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WG Coupler

WDXC-XX Type



Model Information

Example Part Number:

284

WDXC

-XX

Waveguide Size: WR284 to WR10

Product Code

Coupling(dB)

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Mat.
WR284	2.60-3.95	284WDXC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.10	FDP32	Al
WR229	3.30-4.90	229WDXC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.10	FDP40	Al
WR187	3.95-5.85	187WDXC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.10	FDP48	Al
WR159	4.90-7.05	159WDXC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.10	FDP58	Al
WR137	5.85-8.20	137WDXC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.10	FDP70	Al
WR112	7.05-10.0	112WDXC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.10	FBP84	Al
WR90	8.20-12.4	90WDXC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.10	FBP100	Al
WR75	10.0-15.0	75WDXC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.10 1.15	FBP120	Al
WR62	12.4-18.0	62WDXC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.10 1.15	FBP140	Al
WR51	15.0-22.0	51WDXC-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.10 1.15	FBP180	Al
WR42	18.0-26.5	42WDXC-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.15	FBP220	Cu
WR34	22.0-33.0	34WDXC-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.15	FBP260	Cu



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Mat.
WR28	26.5-40.0	28WDXC-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.15	FBP320	Cu
WR22	33.0-50.0	22WDXC-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.20	FUGP400	Cu
WR19	40.0-60.0	19WDXC-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.20	FUGP500	Cu
WR15	50.0-75.0	15WDXC-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.20	FUGP620	Cu
WR12	60.0-90.0	12WDXC-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.20	FUGP740	Cu
WR10	75.0-110.0	10WDXC-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.20	FUGP900	Cu



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WG Coupler

WDXCHB-XX Type



Model Information

Example Part Number:

51

WDXCHB

-XX

Waveguide Size: WR51 to WR10

Product Code

Coupling(dB)

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Mat.
WR51	15.0-22.0	51WDXCHB-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.10 1.10	FBP180	Al
WR42	18.0-26.5	42WDXCHB-XX	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.15	FBP220	Al
WR34	22.0-33.0	34WDXCHB-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.15	FBP260	Cu
WR28	26.5-40.0	28WDXCHB-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.15	FBP320	Cu
WR22	33.0-50.0	22WDXCHB-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.20	FUGP400	Cu
WR19	40.0-60.0	19WDXCHB-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.20	FUGP500	Cu
WR15	50.0-75.0	15WDXCHB-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.20	FUGP620	Cu
WR12	60.0-90.0	12WDXCHB-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.20	FUGP740	Cu
WR10	75.0-110.0	10WDXCHB-XX_Cu	6/10/ 20/30/ 40/50	±1.3	±0.9	30	1.15 1.20	FUGP900	Cu



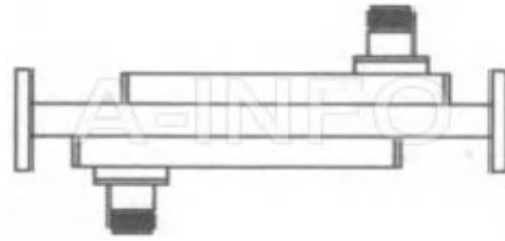
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WG Coupler

WDXCx-XX Type



Model Information

Example Part Number: 430 WDXCx -XX

Waveguide Size: WR430 to WR15

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male;
S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male;
K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female;
2.4M=2.4mm-Male; 1.85=1.85mm-Female; 1.85M=1.85mm-Male;

Coupling(dB)

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR430	1.70-2.60	430WDXCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP22	N-F	Al
WR430	1.70-2.60	430WDXCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP22	SMA-F	Al
WR340	2.20-3.30	340WDXCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP26	N-F	Al
WR340	2.20-3.30	340WDXCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP26	SMA-F	Al
WR284	2.60-3.95	284WDXCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP32	N-F	Al
WR284	2.60-3.95	284WDXCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP32	SMA-F	Al
WR229	3.30-4.90	229WDXCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP40	N-F	Al
WR229	3.30-4.90	229WDXCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP40	N-M	Al
WR229	3.30-4.90	229WDXCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP40	SMA-F	Al
WR187	3.95-5.85	187WDXCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP48	N-F	Al
WR187	3.95-5.85	187WDXCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP48	N-M	Al



WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR187	3.95-5.85	187WDXCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP48	SMA-F	Al
WR187	3.95-5.85	187WDXCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP48	SMA-M	Al
WR159	4.90-7.05	159WDXCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	N-F	Al
WR159	4.90-7.05	159WDXCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	N-M	Al
WR159	4.90-7.05	159WDXCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	SMA-F	Al
WR159	4.90-7.05	159WDXCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP58	SMA-M	Al
WR137	5.85-8.20	137WDXCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	N-F	Al
WR137	5.85-8.20	137WDXCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	N-M	Al
WR137	5.85-8.20	137WDXCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	SMA-F	Al
WR137	5.85-8.20	137WDXCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FDP70	SMA-M	Al
WR112	7.05-10.0	112WDXCN-XX	6/10/ 20/30/	±0.9	±0.7	30	1.05 1.25	FBP84	N-F	Al
WR112	7.05-10.0	112WDXCN-XX	40/50	±0.9	±0.7	30	1.15 1.25	FBP84	N-F	Al
WR112	7.05-10.0	112WDXCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP84	N-M	Al
WR112	7.05-10.0	112WDXCS-40	40	±0.9	±0.7	30	1.15 1.25	FBP84	SMA-F	Al
WR112	7.05-10.0	112WDXCS-XX	6/10/ 20/30/ 50	±0.9	±0.7	30	1.05 1.25	FBP84	SMA-F	Al
WR112	7.05-10.0	112WDXCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP84	SMA-M	Al
WR90	8.20-12.4	90WDXCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP100	N-F	Al
WR90	8.20-12.4	90WDXCN-30_Cu	30	±1.0	±0.7	30	1.15 1.35	FBP100	N-F	Al
WR90	8.20-12.4	90WDXCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP100	N-M	Al
WR90	8.20-12.4	90WDXCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP100	SMA-F	Al
WR90	8.20-12.4	90WDXCS-30_Cu	30	±1.0	±0.7	30	1.15 1.35	FBP100	SMA-F	Cu
WR90	8.20-12.4	90WDXCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP100	SMA-M	Al



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WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR75	10.0-15.0	75WDXCN-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP120	N-F	Al
WR75	10.0-15.0	75WDXCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP120	N-M	Al
WR75	10.0-15.0	75WDXCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP120	SMA-F	Al
WR75	10.0-15.0	75WDXCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.05 1.25	FBP120	SMA-M	Al
WR62	12.4-18.0	62WDXCN-XX	6/10/ 20/30/ 40	±0.9	±0.7	30	1.10 1.25	FBP140	N-F	Al
WR62	12.4-18.0	62WDXCN-50	50	±0.9	±0.7	30	1.05 1.25	FBP140	N-F	Al
WR62	12.4-18.0	62WDXCNM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.10 1.25	FBP140	N-M	Al
WR62	12.4-18.0	62WDXCS-XX	6/10/20 /30/40	±0.9	±0.7	30	1.10 1.25	FBP140	SMA-F	Al
WR62	12.4-18.0	62WDXCS-50	50	±0.9	±0.7	30	1.05 1.25	FBP140	SMA-F	Al
WR62	12.4-18.0	62WDXCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.10 1.25	FBP140	SMA-M	Al
WR51	15.0-22.0	51WDXCS-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.10 1.25	FBP180	SMA-F	Al
WR51	15.0-22.0	51WDXCSM-XX	6/10/ 20/30/ 40/50	±0.9	±0.7	30	1.10 1.25	FBP180	SMA-M	Al
WR42	18.0-26.5	42WDXCS-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.35	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WDXCSM-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.35	FBP220	SMA-M	Cu
WR42	18.0-26.5	42WDXC3.5-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.35	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WDXC3.5M-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.35	FBP220	3.5mm-M	Cu
WR42	18.0-26.5	42WDXCK-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.35	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WDXCKM-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.35	FBP220	2.92mm-M	Cu
WR34	22.0-33.0	34WDXCK-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.35	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WDXCKM-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.35	FBP260	2.92mm-M	Cu
WR28	26.5-40.0	28WDXCK-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.40	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDXCKM-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.40	FBP320	2.92mm-M	Cu



WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR28	26.5-40.0	28WDXC2.4-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.40	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WDXC2.4M-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.10 1.40	FBP320	2.4mm-M	Cu
WR22	33.0-50.0	22WDXC2.4-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.50	FUGP400	2.4mm-F	Cu
WR19	40.0-50.0	19WDXC2.4-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.40	FUGP500	2.4mm-F	Cu
WR19	40.0-60.0	19WDXC1.85-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.40	FUGP500	1.85mm-F	Cu
WR15	50.0-65.0	15WDXC1.85-XX_Cu	6/10/ 20/30/ 40/50	±1.0	±0.9	30	1.15 1.40	FUGP620	1.85mm-F	Cu



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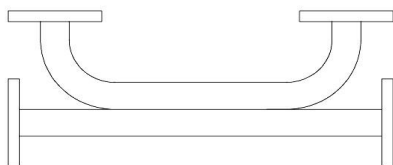
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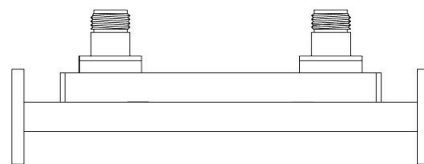
WG Coupler

We can also provide the following types coupler, pls. see the outline drawing.

Four ports Dual Coupler

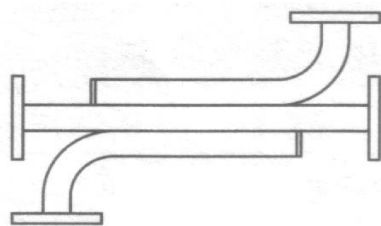


WUC Series

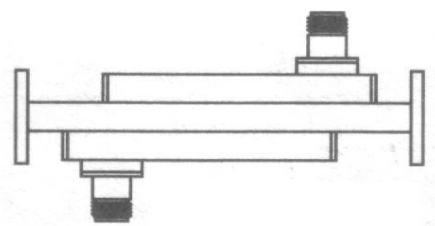


WUCN Series

Dual Directional Coupler

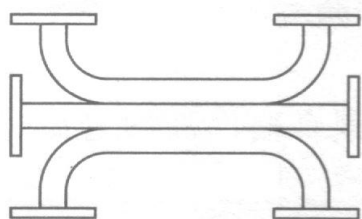


WDXC Series

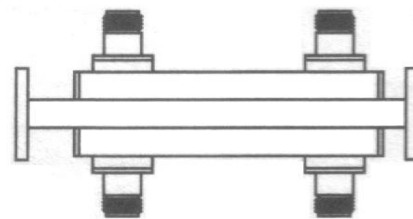


WDXCN Series

Six Ports Dual Coupler

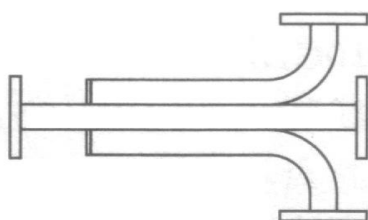


WDUC Series

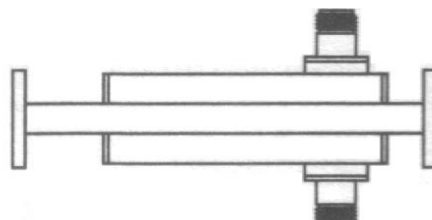


WDUCN Series

Same Directional Coupled Power Divider



WDC Series



WDCN Series

Note: For detailed information of above couplers, pls. feel free to contact us.



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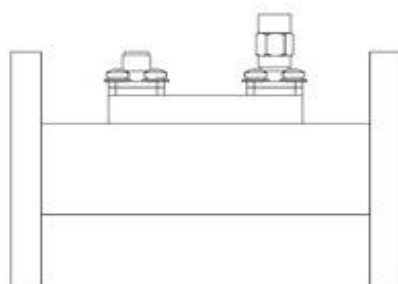
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WG Coupler

3. WG Coupler - Loop

WHCx-XX Type



Model Information

Example Part Number: 430 WHCx -XX

Waveguide Size: WR430 to WR28

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male; S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male; K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female; 2.4M=2.4mm-Male;

Coupling(dB)

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ.)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR430	1.70-2.60	430WHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP22	N-F	Al
WR430	1.70-2.60	430WHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP22	N-M	Al
WR430	1.70-2.60	430WHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP22	SMA-F	Al
WR430	1.70-2.60	430WHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP22	SMA-M	Al
WR340	2.20-3.30	340WHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP26	N-F	Al
WR340	2.20-3.30	340WHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP26	N-M	Al
WR340	2.20-3.30	340WHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP26	SMA-F	Al
WR340	2.20-3.30	340WHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP26	SMA-M	Al
WR284	2.60-3.95	284WHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP32	N-F	Al
WR284	2.60-3.95	284WHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP32	N-M	Al
WR284	2.60-3.95	284WHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP32	SMA-F	Al
WR284	2.60-3.95	284WHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP32	SMA-M	Al
WR229	3.30-4.90	229WHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP40	N-F	Al
WR229	3.30-4.90	229WHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP40	N-M	Al
WR229	3.30-4.90	229WHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP40	SMA-F	Al
WR229	3.30-4.90	229WHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP40	SMA-M	Al



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WG Coupler

EIA WR	Freq.(GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ.)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR187	3.95-5.85	187WHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP48	N-F	Al
WR187	3.95-5.85	187WHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP48	N-M	Al
WR187	3.95-5.85	187WHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP48	SMA-F	Al
WR187	3.95-5.85	187WHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP48	SMA-M	Al
WR159	4.90-7.05	159WHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP58	N-F	Al
WR159	4.90-7.05	159WHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP58	N-M	Al
WR159	4.90-7.05	159WHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP58	SMA-F	Al
WR159	4.90-7.05	159WHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP58	SMA-M	Al
WR137	5.85-8.20	137WHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP70	N-F	Al
WR137	5.85-8.20	137WHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP70	N-M	Al
WR137	5.85-8.20	137WHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP70	SMA-F	Al
WR137	5.85-8.20	137WHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP70	SMA-M	Al
WR112	7.05-10.0	112WHCN-XX	30/40/ 50/60	15	1.10 1.35	FBP84	N-F	Al
WR112	7.05-10.0	112WHCNM-XX	30/40/ 50/60	15	1.10 1.35	FBP84	N-M	Al
WR112	7.05-10.0	112WHCS-XX	30/40/ 50/60	15	1.10 1.35	FBP84	SMA-F	Al
WR112	7.05-10.0	112WHCSM-XX	30/40/ 50/60	15	1.10 1.35	FBP84	SMA-M	Al
WR90	8.20-12.4	90WHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	N-F	Cu
WR90	8.20-12.4	90WHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	N-M	Cu
WR90	8.20-12.4	90WHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	SMA-F	Cu
WR90	8.20-12.4	90WHCSM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	SMA-M	Cu
WR75	10.0-15.0	75WHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	N-F	Cu
WR75	10.0-15.0	75WHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	N-M	Cu
WR75	10.0-15.0	75WHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	SMA-F	Cu
WR75	10.0-15.0	75WHCSM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	SMA-M	Cu
WR62	12.4-18.0	62WHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	N-F	Cu
WR62	12.4-18.0	62WHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	N-M	Cu
WR62	12.4-18.0	62WHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	SMA-F	Cu
WR62	12.4-18.0	62WHCSM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	SMA-M	Cu
WR51	15.0-22.0	51WHCS-XX_Cu_Cu	30/40/ 50/60	15	1.10 1.35	FBP180	SMA-F	Cu
WR42	18.0-26.5	42WHCS-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP220	SMA-F	Cu



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EIA WR	Freq.(GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ.)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR42	18.0-26.5	42WHC3.5-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WHCK-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP220	2.92mm-F	Cu
WR34	22.0-33.0	34WHCK-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP260	2.92mm-F	Cu
WR28	26.5-40.0	28WHCK-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WHC2.4-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP320	2.4mm-F	Cu



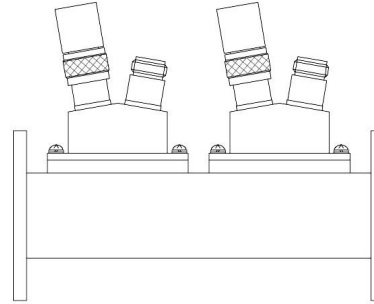
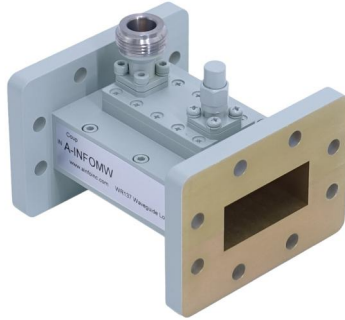
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WG Coupler

WHHCx-XX Type



Model Information

Example Part Number: 430 WHHCx -XX

Waveguide Size: WR430 to WR28

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male; S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male; K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female; 2.4M=2.4mm-Male;

Coupling(dB)

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ)	VSWRM .L. S.L. Max.	Flange	Con.	Mat.
WR430	1.70-2.60	430WHHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP22	N-F	Al
WR430	1.70-2.60	430WHHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP22	N-M	Al
WR430	1.70-2.60	430WHHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP22	SMA-F	Al
WR430	1.70-2.60	430WHHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP22	SMA-M	Al
WR340	2.20-3.30	340WHHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP26	N-F	Al
WR340	2.20-3.30	340WHHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP26	N-M	Al
WR340	2.20-3.30	340WHHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP26	SMA-F	Al
WR340	2.20-3.30	340WHHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP26	SMA-M	Al
WR284	2.60-3.95	284WHHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP32	N-F	Al
WR284	2.60-3.95	284WHHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP32	N-M	Al
WR284	2.60-3.95	284WHHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP32	SMA-F	Al
WR284	2.60-3.95	284WHHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP32	SMA-M	Al
WR229	3.30-4.90	229WHHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP40	N-F	Al
WR229	3.30-4.90	229WHHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP40	SMA-F	Al
WR229	3.30-4.90	229WHHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP40	SMA-M	Al



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR187	3.95-5.85	187WHHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP48	N-F	Al
WR187	3.95-5.85	187WHHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP48	N-M	Al
WR187	3.95-5.85	187WHHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP48	SMA-F	Al
WR187	3.95-5.85	187WHHCMS-XX	30/40/ 50/60	15	1.10 1.35	FDP48	SMA-M	Al
WR159	4.90-7.05	159WHHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP58	N-F	Al
WR159	4.90-7.05	159WHHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP58	N-M	Al
WR159	4.90-7.05	159WHHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP58	SMA-F	Al
WR159	4.90-7.05	159WHHCMS-XX	30/40/ 50/60	15	1.10 1.35	FDP58	SMA-M	Al
WR137	5.85-8.20	137WHHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP70	N-F	Al
WR137	5.85-8.20	137WHHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP70	N-M	Al
WR137	5.85-8.20	137WHHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP70	SMA-F	Al
WR137	5.85-8.20	137WHHCMS-XX	30/40/ 50/60	15	1.10 1.35	FDP70	SMA-M	Al
WR112	7.05-10.0	112WHHCN-XX	30/40/ 50/60	15	1.10 1.35	FBP84	N-F	Al
WR112	7.05-10.0	112WHHCNM-XX	30/40/ 50/60	15	1.10 1.35	FBP84	N-M	Al
WR112	7.05-10.0	112WHHCS-XX	30/40/ 50/60	15	1.10 1.35	FBP84	SMA-F	Al
WR112	7.05-10.0	112WHHCMS-XX	30/40/ 50/60	15	1.10 1.35	FBP84	SMA-M	Al
WR90	8.20-12.4	90WHHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	N-F	Cu
WR90	8.20-12.4	90WHHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	N-M	Cu
WR90	8.20-12.4	90WHHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	SMA-F	Cu
WR90	8.20-12.4	90WHHCMS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	SMA-M	Cu
WR75	10.0-15.0	75WHHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	N-F	Cu
WR75	10.0-15.0	75WHHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	N-M	Cu
WR75	10.0-15.0	75WHHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	SMA-F	Cu
WR75	10.0-15.0	75WHHCMS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	SMA-M	Cu
WR62	12.4-18.0	62WHHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	N-F	Cu
WR62	12.4-18.0	62WHHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	N-M	Cu
WR62	12.4-18.0	62WHHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	SMA-F	Cu
WR62	12.4-18.0	62WHHCMS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	SMA-M	Cu
WR51	15.0-22.0	51WHHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP180	SMA-F	Cu
WR42	18.0-26.5	42WHHCS-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP220	SMA-F	Cu



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WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR42	18.0-26.5	42WHHC3.5-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WHHCK-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP220	2.92mm-F	Cu
WR34	22.0-33.0	34WHHCK-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP260	2.92mm-F	Cu
WR28	26.5-40.0	28WHHCK-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WHHC2.4-XX_Cu	30/40/ 50/60	15	1.15 1.70	FBP320	2.4mm-F	Cu



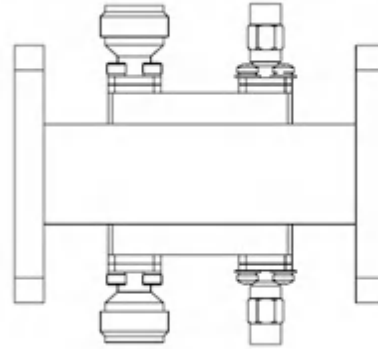
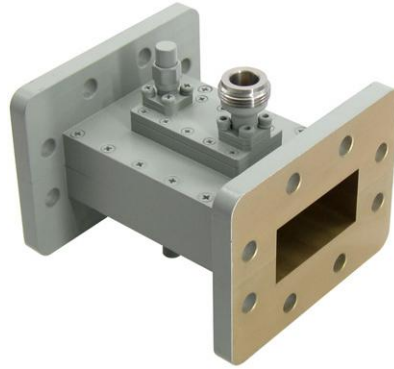
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WG Coupler

WDHCx-XX Type



Model Information

Example Part Number: 430 WDHCx -XX

Waveguide Size: WR430 to WR28

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male;
S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male;
K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female; 2.4M=2.4mm-Male;

Coupling(dB)

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ.)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR430	1.70-2.60	430WDHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP22	N-F	Al
WR430	1.70-2.60	430WDHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP22	N-M	Al
WR430	1.70-2.60	430WDHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP22	SMA-F	Al
WR430	1.70-2.60	430WDHCMS-XX	30/40/ 50/60	15	1.10 1.35	FDP22	SMA-M	Al
WR340	2.20-3.30	340WDHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP26	N-F	Al
WR340	2.20-3.30	340WDHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP26	N-M	Al
WR340	2.20-3.30	340WDHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP26	SMA-F	Al
WR340	2.20-3.30	340WDHCMS-XX	30/40/ 50/60	15	1.10 1.35	FDP26	SMA-M	Al
WR284	2.60-3.95	284WDHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP32	N-F	Al
WR284	2.60-3.95	284WDHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP32	N-M	Al
WR284	2.60-3.95	284WDHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP32	SMA-F	Al
WR284	2.60-3.95	284WDHCMS-XX	30/40/ 50/60	15	1.10 1.35	FDP32	SMA-M	Al
WR229	3.30-4.90	229WDHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP40	N-F	Al
WR229	3.30-4.90	229WDHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP40	N-M	Al



WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ.)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR187	3.95-5.85	187WDHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP48	N-M	Al
WR187	3.95-5.85	187WDHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP48	SMA-F	Al
WR187	3.95-5.85	187WDHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP48	SMA-M	Al
WR159	4.90-7.05	159WDHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP58	N-F	Al
WR159	4.90-7.05	159WDHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP58	N-M	Al
WR159	4.90-7.05	159WDHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP58	SMA-F	Al
WR159	4.90-7.05	159WDHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP58	SMA-M	Al
WR137	5.85-8.20	137WDHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP70	N-F	Al
WR137	5.85-8.20	137WDHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP70	N-M	Al
WR137	5.85-8.20	137WDHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP70	SMA-F	Al
WR137	5.85-8.20	137WDHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP70	SMA-M	Al
WR112	7.05-10.0	112WDHCN-XX	30/40/ 50/60	15	1.10 1.35	FBP84	N-F	Al
WR112	7.05-10.0	112WDHCNM-XX	30/40/ 50/60	15	1.10 1.35	FBP84	N-M	Al
WR112	7.05-10.0	112WDHCS-XX	30/40/ 50/60	15	1.10 1.35	FBP84	SMA-F	Al
WR112	7.05-10.0	112WDHCSM-XX	30/40/ 50/60	15	1.10 1.35	FBP84	SMA-M	Al
WR90	8.20-12.4	90WDHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	N-F	Cu
WR90	8.20-12.4	90WDHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	N-M	Cu
WR90	8.20-12.4	90WDHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	SMA-F	Cu
WR90	8.20-12.4	90WDHCSM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	SMA-M	Cu
WR75	10.0-15.0	75WDHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	N-F	Cu
WR75	10.0-15.0	75WDHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	N-M	Cu
WR75	10.0-15.0	75WDHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	SMA-F	Cu
WR75	10.0-15.0	75WDHCSM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	SMA-M	Cu



WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ.)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR62	12.4-18.0	62WDHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	N-F	Cu
WR62	12.4-18.0	62WDHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	N-M	Cu
WR62	12.4-18.0	62WDHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	SMA-F	Cu
WR62	12.4-18.0	62WDHCSM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	SMA-M	Cu
WR51	15.0-22.0	51WDHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP180	SMA-F	Cu
WR42	18.0-26.5	42WDHCS-30_Cu	30	15	1.18 1.70	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WDHCS-XX_Cu	40/ 50/60	15	1.15 1.70	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WDHC3.5-30_Cu	30	15	1.18 1.70	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WDHC3.5-XX_Cu	40/ 50/60	15	1.15 1.70	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WDHCK-30_Cu	30	15	1.18 1.70	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WDHCK-XX_Cu	40/ 50/60	15	1.15 1.70	FBP220	2.92mm-F	Cu
WR34	22.0-33.0	34WDHCK-30_Cu	30	15	1.18 1.70	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WDHCK-XX_Cu	40/ 50/60	15	1.15 1.70	FBP260	2.92mm-F	Cu
WR28	26.5-40.0	28WDHCK-30_Cu	30	15	1.18 1.70	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDHCK-XX_Cu	40/ 50/60	15	1.15 1.70	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDHCK-30_Cu	30	15	1.18 1.70	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDHCK-XX_Cu	40/ 50/60	15	1.15 1.70	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDHC2.4-30_Cu	30	15	1.18 1.70	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WDHC2.4-XX_Cu	40/ 50/60	15	1.15 1.70	FBP320	2.4mm-F	Cu



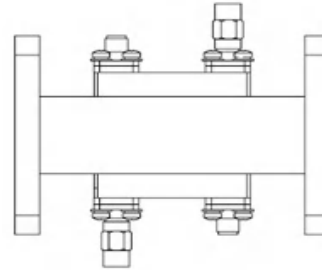
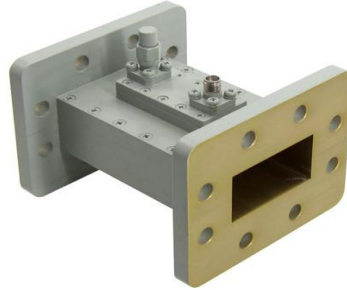
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WG Coupler

WDXHCx-XX Type



Model Information

Example Part Number: 430 WDXHCx -XX

Waveguide Size: WR430 to WR28

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male; S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male; K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female; 2.4M=2.4mm-Male;

Coupling(dB)

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ.)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR430	1.70-2.60	430WDXHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP22	N-F	Al
WR430	1.70-2.60	430WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP22	N-M	Al
WR430	1.70-2.60	430WDXHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP22	SMA-F	Al
WR430	1.70-2.60	430WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP22	SMA-M	Al
WR340	2.20-3.30	340WDXHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP26	N-F	Al
WR340	2.20-3.30	340WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP26	N-M	Al
WR340	2.20-3.30	340WDXHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP26	SMA-F	Al
WR340	2.20-3.30	340WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP26	SMA-M	Al
WR284	2.60-3.95	284WDXHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP32	N-F	Al
WR284	2.60-3.95	284WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP32	N-M	Al
WR284	2.60-3.95	284WDXHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP32	SMA-F	Al
WR284	2.60-3.95	284WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP32	SMA-M	Al
WR229	3.30-4.90	229WDXHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP40	N-F	Al
WR229	3.30-4.90	229WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP40	N-M	Al
WR229	3.30-4.90	229WDXHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP40	SMA-F	Al
WR229	3.30-4.90	229WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP40	SMA-M	Al
WR187	3.95-5.85	187WDXHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP48	N-F	Al



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EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ.)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR187	3.95-5.85	187WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP48	N-M	Al
WR187	3.95-5.85	187WDXHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP48	SMA-F	Al
WR187	3.95-5.85	187WDXHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP48	SMA-M	Al
WR159	4.90-7.05	159WDXHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP58	N-F	Al
WR159	4.90-7.05	159WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP58	N-M	Al
WR159	4.90-7.05	159WDXHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP58	SMA-F	Al
WR159	4.90-7.05	159WDXHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP58	SMA-M	Al
WR137	5.85-8.20	137WDXHCN-XX	30/40/ 50/60	15	1.10 1.35	FDP70	N-F	Al
WR137	5.85-8.20	137WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FDP70	N-M	Al
WR137	5.85-8.20	137WDXHCS-XX	30/40/ 50/60	15	1.10 1.35	FDP70	SMA-F	Al
WR137	5.85-8.20	137WDXHCSM-XX	30/40/ 50/60	15	1.10 1.35	FDP70	SMA-M	Al
WR112	7.05-10.0	112WDXHCN-XX	30/40/ 50/60	15	1.10 1.35	FBP84	N-F	Al
WR112	7.05-10.0	112WDXHCNM-XX	30/40/ 50/60	15	1.10 1.35	FBP84	N-M	Al
WR112	7.05-10.0	112WDXHCS-XX	30/40/ 50/60	15	1.10 1.35	FBP84	SMA-F	Al
WR112	7.05-10.0	112WDXHCSM-XX	30/40/ 50/60	15	1.10 1.35	FBP84	SMA-M	Al
WR90	8.20-12.4	90WDXHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	N-F	Cu
WR90	8.20-12.4	90WDXHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	N-M	Cu
WR90	8.20-12.4	90WDXHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	SMA-F	Cu
WR90	8.20-12.4	90WDXHCSM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP100	SMA-M	Cu
WR75	10.0-15.0	75WDXHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	N-F	Cu
WR75	10.0-15.0	75WDXHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	N-M	Cu
WR75	10.0-15.0	75WDXHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	SMA-F	Cu
WR75	10.0-15.0	75WDXHCSM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP120	SMA-M	Cu
WR62	12.4-18.0	62WDXHCN-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	N-F	Cu
WR62	12.4-18.0	62WDXHCNM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	N-M	Cu
WR62	12.4-18.0	62WDXHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	SMA-F	Cu
WR62	12.4-18.0	62WDXHCSM-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP140	SMA-M	Cu
WR51	15.0-22.0	51WDXHCS-XX_Cu	30/40/ 50/60	15	1.10 1.35	FBP180	SMA-F	Cu



WG Coupler

EIA WR	Freq. (GHz)	P/N	Coup. (dB)	Dir. (dB) (Typ.)	VSWR M.L. S.L. Max.	Flange	Con.	Mat.
WR42	18.0-26.5	42WDXHCS-30_Cu	30	15	1.18 1.70	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WDXHCS-XX_Cu	40/ 50/60	15	1.15 1.70	FBP220	SMA-F	Cu
WR42	18.0-26.5	42WDXHC3.5-30_Cu	30	15	1.18 1.70	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WDXHC3.5-XX_Cu	40/ 50/60	15	1.15 1.70	FBP220	3.5mm-F	Cu
WR42	18.0-26.5	42WDXHCK-30_Cu	30	15	1.18 1.70	FBP220	2.92mm-F	Cu
WR42	18.0-26.5	42WDXHCK-XX_Cu	40/ 50/60	15	1.15 1.70	FBP220	2.92mm-F	Cu
WR34	22.0-33.0	34WDXHCK-30_Cu	30	15	1.18 1.70	FBP260	2.92mm-F	Cu
WR34	22.0-33.0	34WDXHCK-XX_Cu	40/ 50/60	15	1.15 1.70	FBP260	2.92mm-F	Cu
WR28	26.5-40.0	28WDXHCK-30_Cu	30	15	1.18 1.70	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDXHCK-XX_Cu	40/ 50/60	15	1.15 1.70	FBP320	2.92mm-F	Cu
WR28	26.5-40.0	28WDXHC2.4-30_Cu	30	15	1.18 1.70	FBP320	2.4mm-F	Cu
WR28	26.5-40.0	28WDXHC2.4-XX_Cu	40/ 50/60	15	1.15 1.70	FBP320	2.4mm-F	Cu



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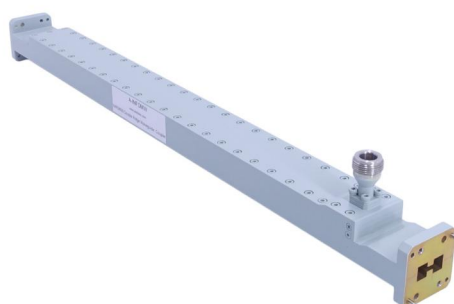
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WG Coupler

4. DR WG Coupler - High Directional

DRWCx-XX Type



Model Information

Example Part Number: 200 DRWCx -XX

Waveguide Size: WRD200D24 to WRD180D24

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male; S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male; K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female; 2.4M=2.4mm-Male;

Coupling(dB)

EIA WRD	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Con.	Mat.
WRD200	2.0-4.8	200DRWCN-XX	10/20/30/50	±1.5	±1.5	25	1.25 1.50	N-F	Al
WRD200	2.0-4.8	200DRWCN-40	40	±1.5	±1.5	30	1.15 1.50	N-F	Al
WRD200	2.0-4.8	200DRWCS-XX	10/20/30/ 40/50	±1.5	±1.5	25	1.25 1.50	SMA-F	Al
WRD250	2.6-7.8	250DRWCN-XX	10/20/30/ 40/50	±1.5	±1.5	25	1.25 1.50	N-F	Al
WRD250	2.6-7.8	250DRWCS-XX	10/20/30//50	±1.5	±1.5	25	1.25 1.50	SMA-F	Al
WRD250	2.6-7.8	250DRWCS-40	40	±1.5	±1.5	30	1.25 1.50	SMA-F	Al
WRD350	3.5-8.2	350DRWCN-XX	10/20/30 /40/50	±1.5	±1.5	25	1.25 1.50	N-F	Al
WRD350	3.5-8.2	350DRWCS-XX	10/ 20/30/50	±1.5	±1.5	25	1.25 1.50	SMA-F	Al
WRD350	3.5-8.2	350DRWCS-40	40	±1.5	±1.5	30	1.15 1.50	SMA-F	Al
WRD475	4.75-11.0	475DRWCN-XX	10/20/30/ 40/50	±1.5	±1.5	25	1.25 1.50	N-F	Al
WRD475	4.75-11.0	475DRWCS-XX	10/20/30/ 40/50	±1.5	±1.5	25	1.25 1.50	SMA-F	Al
WRD580	5.8-16.0	580DRWCN-10	10	±1.5	±1.5	30	1.25 1.50	N-F	Al
WRD580	5.8-16.0	580DRWCN-XX	20/30/ 40/50	±1.5	±1.5	25	1.25 1.50	N-F	Al



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EIA WRD	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Con.	Mat.
WRD580	5.8-16.0	580DRWCS-10	10	±1.5	±1.5	30	1.25 1.50	SMA-F	Al
WRD580	5.8-16.0	580DRWCS-XX	20/30/ 40/50	±1.5	±1.5	25	1.25 1.50	SMA-F	Al
WRD650	6.5-18.0	650DRWCN-10	10	±1.5	±1.5	30	1.25 1.50	N-F	Al
WRD650	6.5-18.0	650DRWCN-XX	20/40	±1.5	±1.5	30	1.15 1.50	N-F	Al
WRD650	6.5-18.0	650DRWCN-XX	30/50	±1.5	±1.5	25	1.25 1.50	N-F	Al
WRD650	6.5-18.0	650DRWCS-XX	10	±1.5	±1.5	30	1.25 1.50	SMA-F	Al
WRD650	6.5-18.0	650DRWCS-XX	20/40	±1.5	±1.5	30	1.15 1.50	SMA-F	Al
WRD650	6.5-18.0	650DRWCS-XX	30/50	±1.5	±1.5	25	1.25 1.50	SMA-F	Al
WRD750	7.5-18.0	750DRWCN-10	10	±1.5	±1.5	30	1.25 1.50	N-F	Al
WRD750	7.5-18.0	750DRWCN-XX	20/30/50	±1.5	±1.5	25	1.25 1.50	N-F	Al
WRD750	7.5-18.0	750DRWCN-40	40	±1.5	±1.5	30	1.15 1.50	N-F	Al
WRD750	7.5-18.0	750DRWCS-10	10	±1.5	±1.5	30	1.25 1.50	SMA-F	Al
WRD750	7.5-18.0	750DRWCS-XX	20/30	±1.5	±1.5	25	1.25 1.50	SMA-F	Al
WRD750	7.5-18.0	750DRWCS-XX	40/50	±1.5	±1.5	30	1.15 1.50	SMA-F	Al
WRD110	11.0-26.5	110DRWCS-10_Cu	10	±1.5	±1.5	30	1.25 1.50	SMA-F	Cu
WRD110	11.0-26.5	110DRWCS-XX_Cu	20/30/ 40/50	±1.5	±1.5	25	1.25 1.50	SMA-F	Cu
WRD180	18.0-40.0	180DRWCK-XX_Cu	10/40	±1.5	±1.5	30	1.25 1.50	2.92mm-F	Cu
WRD180	18.0-40.0	180DRWCK-XX_Cu	20/30/50	±1.5	±1.5	25	1.25 1.50	2.92mm-F	Cu



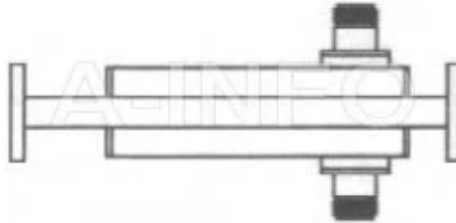
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WG Coupler

DRWDCx-XX Type



Model Information

Example Part Number: 200 DRWDCx -XX

Waveguide Size: WRD200D24 to WRD180D24

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male; S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male; K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female; 2.4M=2.4mm-Male;

Coupling(dB)

EIA WRD	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Con.	Mat.
WRD200	2.0-4.8	200DRWDCN-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-F	Al
WRD200	2.0-4.8	200DRWDCS-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Al
WRD250	2.6-7.8	250DRWDCN-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-F	Al
WRD250	2.6-7.8	250DRWDCS-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Al
WRD350	3.5-8.2	350DRWDCN-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-F	Al
WRD350	3.5-8.2	350DRWDCS-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Al
WRD475	4.75-11.0	475DRWDCN-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-F	Al
WRD475	4.75-11.0	475DRWDCS-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Al
WRD580	5.8-16.0	580DRWDCN-10	10	± 1.5	± 1.5	30	1.25 1.50	N-F	Al
WRD580	5.8-16.0	580DRWDCN-XX	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-F	Al
WRD580	5.8-16.0	580DRWDCS-10	10	± 1.5	± 1.5	30	1.25 1.50	SMA-F	Al
WRD580	5.8-16.0	580DRWDCS-XX	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Al



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EIA WRD	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Con.	Mat.
WRD650	6.5-18.0	650DRWDCN-10	10	± 1.5	± 1.5	30	1.25 1.50	N-F	Al
WRD650	6.5-18.0	650DRWDCN-XX	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-F	Al
WRD650	6.5-18.0	650DRWDSCS-10	10	± 1.5	± 1.5	30	1.25 1.50	SMA-F	Al
WRD650	6.5-18.0	650DRWDSCS-XX	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Al
WRD750	7.5-18.0	750DRWDCN-10	10	± 1.5	± 1.5	30	1.25 1.50	N-F	Al
WRD750	7.5-18.0	750DRWDCN-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-F	Al
WRD750	7.5-18.0	750DRWDSCS-10	10	± 1.5	± 1.5	30	1.25 1.50	SMA-F	Al
WRD750	7.5-18.0	750DRWDSCS-XX	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Al
WRD110	11.0-26.5	110DRWDSCS-10_Cu	10	± 1.5	± 1.5	30	1.25 1.50	SMA-F	Cu
WRD110	11.0-26.5	110DRWDSCS-XX_Cu	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Cu
WRD180	18.0-40.0	180DRWDCK-10_Cu	10	± 1.5	± 1.5	30	1.25 1.50	2.92mm-F	Cu
WRD180	18.0-40.0	180DRWDCK-XX_Cu	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	2.92mm-F	Cu



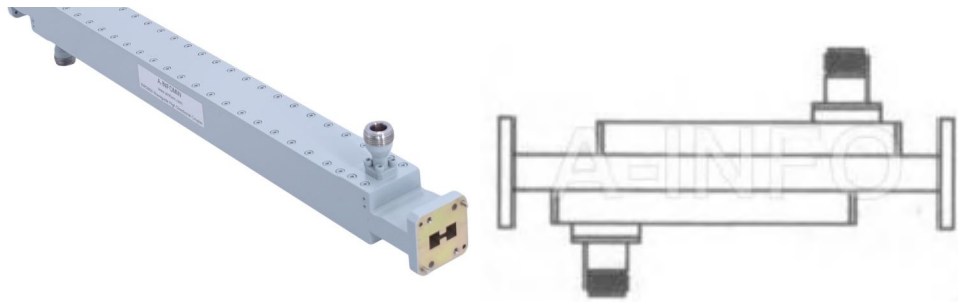
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WG Coupler

DRWDXCx-XX Type



Model Information

Example Part Number: 200 DRWDXCx -XX

Waveguide Size: WRD200D24 to WRD180D24

Product Code, x means connector type: N=N Type-Female; NM=N Type-Male;
S=SMA-Female; SM=SMA-Male; 3.5=3.5mm-Female; 3.5M=3.5mm-Male;
K=2.92mm-Female; KM=2.92mm-Male; 2.4=2.4mm-Female; 2.4M=2.4mm-Male;

Coupling(dB)

EIA WRD	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Con.	Mat.
WRD200	2.0-4.8	200DRWDXCN-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-F	Al
WRD200	2.0-4.8	200DRWDXCS-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Al
WRD250	2.6-7.8	250DRWDXCN-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-F	Al
WRD250	2.6-7.8	250DRWDXCS-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Al
WRD350	3.5-8.2	350DRWDXCN-XX	10/ 20/30/ 40	± 1.5	± 1.5	25	1.25 1.50	N-F	Al
WRD350	3.5-8.2	350DRWDXCN-50	50	± 1.5	± 1.5	30	1.25 1.50	N-F	Al
WRD350	3.5-8.2	350DRWDXCS-XX	10/ 20/30/ 40	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Al
WRD350	3.5-8.2	350DRWDXCS-50	50	± 1.5	± 1.5	30	1.25 1.50	SMA-F	Al

WG Coupler

EIA WRD	Freq. (GHz)	P/N	Coup. (dB)	Coup. Acc. (dB)	Freq. SS. (dB)	Dir. (dB) Min.	VSWR M.L. S.L. Max.	Con.	Mat.
WRD475	4.75-11.0	475DRWDXCN-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-F	Al
WRD475	4.75-11.0	475DRWDXCS-XX	10/ 20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-F	Al
WRD580	5.8-16.0	580DRWDXCN-10	10	± 1.5	± 1.5	30	1.25 1.50	N-50K	Al
WRD580	5.8-16.0	580DRWDXCN-XX	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-50K	Al
WRD580	5.8-16.0	580DRWDXCS-10	10	± 1.5	± 1.5	30	1.25 1.50	SMA-50K	Al
WRD580	5.8-16.0	580DRWDXCS-XX	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-50K	Al
WRD650	6.5-18.0	650DRWDXCN-XX	10/40/ 50	± 1.5	± 1.5	30	1.15 1.50	N-50K	Al
WRD650	6.5-18.0	650DRWDXCN-XX	20/30	± 1.5	± 1.5	25	1.25 1.50	N-50K	Al
WRD650	6.5-18.0	650DRWDXCS-XX	10/40/ 50	± 1.5	± 1.5	30	1.15 1.50	SMA-50K	Al
WRD650	6.5-18.0	650DRWDXCS-XX	20/30	± 1.5	± 1.5	25	1.25 1.50	SMA-50K	Al
WRD750	7.5-18.0	750DRWDXCN-10	10	± 1.5	± 1.5	30	1.25 1.50	N-50K	Al
WRD750	7.5-18.0	750DRWDXCN-XX	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	N-50K	Al
WRD750	7.5-18.0	750DRWDXCS-XX	10/40	± 1.5	± 1.5	30	1.15 1.50	SMA-50K	Al
WRD750	7.5-18.0	750DRWDXCS-XX	20/30/ 50	± 1.5	± 1.5	25	1.25 1.50	SMA-50K	Al
WRD110	11.0-26.5	110DRWDXCS-10_Cu	10	± 1.5	± 1.5	30	1.25 1.50	SMA-50K	Cu
WRD110	11.0-26.5	110DRWDXCS-XX_Cu	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	SMA-50K	Cu
WRD180	18.0-40.0	180DRWDXCK-10_Cu	10	± 1.5	± 1.5	30	1.25 1.50	2.92mm-50K	Cu
WRD180	18.0-40.0	180DRWDXCK-XX_Cu	20/30/ 40/50	± 1.5	± 1.5	25	1.25 1.50	2.92mm-50K	Cu



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Bend/Straight/Twist

Bend/Straight/Twist

1. Straight WG - Rectangular



P/N	Freq. (GHz)	VSWR Max.	EIA WR	Length (mm)	Flange	Mat.	N.W.
975WAL-500	0.75-1.12	1.05	WR975	500	FDP9	Al	6.06
975WAL-100	0.75-1.12	1.05	WR975	100	FDP9	Al	3.21
770WAL-500	0.96-1.45	1.05	WR770	500.	FDP12	Al	-
650WAL-150	1.12-1.7	1.05	WR650	150	FDP14	Al	1.40
650WAL-200	1.12-1.7	1.05	WR650	200	FDP14	Al	-
650WAL-300	1.12-1.7	1.05	WR650	300	FDP14	Al	1.81
650WAL-500	1.12-1.7	1.05	WR650	500	FDP14	Al	2.60
650WAL-1000	1.12-1.7	1.05	WR650	1000	FDP14	Al	2.96
510WAL-500	1.45-2.2	1.05	WR510	500	FDP18	Al	2.48
430WAL-50	1.7-2.6	1.05	WR430	50	FDP22	Al	0.66
430WAL-100	1.7-2.6	1.05	WR430	100	FDP22	Al	0.74
430WAL-200	1.7-2.6	1.05	WR430	200	FDP22	Al	0.74
430WAL-300	1.7-2.6	1.05	WR430	300	FDP22	Al	0.14
430WAL-500	1.7-2.6	1.05	WR430	500	FDP22	Al	1.49
340WAL-50	2.2-3.3	1.05	WR340	50	FDP26	Al	0.54
340WAL-75	2.2-3.3	1.05	WR340	75	FDP26	Al	0.60
340WAL-100	2.2-3.3	1.05	WR340	100	FDP26	Al	0.63
340WAL-200	2.2-3.3	1.05	WR340	200	FDP26	Al	0.76



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P/N	Freq. (GHz)	VSWR Max.	EIA WR	Length (mm)	Flange	Mat.	N.W.
340WAL-300	2.2-3.3	1.05	WR340	300	FDP26	Al	0.94
340WAL-500	2.2-3.3	1.05	WR340	500	FDP26	Al	1.24
284WAL-50	2.6-3.95	1.05	WR284	50	FDP32	Al	0.33
284WAL-100	2.6-3.95	1.05	WR284	100	FDP32	Al	0.38
284WAL-150	2.6-3.95	1.05	WR284	150	FDP32	Al	0.427
284WAL-200	2.6-3.95	1.05	WR284	200	FDP32	Al	1.55
284WAL-300	2.6-3.95	1.05	WR284	300	FDP32	Al	0.62
284WAL-500	2.6-3.95	1.05	WR284	500	FDP32	Al	0.92
284WAL-1000	2.6-3.95	1.05	WR284	1000	FDP32	Al	1.52
229WAL-50	3.3-4.9	1.05	WR229	50	FDP40	Al	0.25
229WAL-100	3.3-4.9	1.05	WR229	100	FDP40	Al	0.29
229WAL-200	3.3-4.9	1.05	WR229	200	FDP40	Al	0.36
229WAL-300	3.3-4.9	1.05	WR229	300	FDP40	Al	0.25
229WAL-500	3.3-4.9	1.05	WR229	500	FDP40	Al	0.620
187WAL-50	3.95-5.85	1.05	WR187	50	FDP48	Al	-
187WAL-100	3.95-5.85	1.05	WR187	100	FDP48	Al	0.22
187WAL-200	3.95-5.85	1.05	WR187	200	FDP48	Al	0.28
187WAL-300	3.95-5.85	1.05	WR187	300	FDP48	Al	0.40
187WAL-500	3.95-5.85	1.05	WR187	500	FDP48	Al	0.50
187WAL-1000	3.95-5.85	1.05	WR187	1000	FDP48	Al	0.85
187WAL-1200	3.95-5.85	1.05	WR187	1200	FDP48	Al	0.96
159WAL-50	4.9-7.05	1.05	WR159	50	FDP58	Al	0.21
159WAL-100	4.9-7.05	1.05	WR159	100	FDP58	Al	0.20
159WAL-200	4.9-7.05	1.05	WR159	200	FDP58	Al	0.26
159WAL-300	4.9-7.05	1.05	WR159	300	FDP58	Al	0.32
159WAL-500	4.9-7.05	1.05	WR159	500	FDP58	Al	0.42
137WAL-50	5.85-8.2	1.05	WR137	50	FDP70	Al	0.12
137WAL-100	5.85-8.2	1.05	WR137	100	FDP70	Al	0.14
137WAL-200	5.85-8.2	1.05	WR137	200	FDP70	Al	0.19
137WAL-300	5.85-8.2	1.05	WR137	300	FDP70	Al	0.24
112WAL-50	7.05-10	1.05	WR112	50	FBP84	Al	0.07
112WAL-100	7.05-10	1.05	WR112	100	FBP84	Al	0.09
112WAL-200	7.05-10	1.05	WR112	200	FBP84	Al	0.12
112WAL-300	7.05-10	1.05	WR112	300	FBP84	Al	0.17
90WAL-50	8.2-12.4	1.05	WR90	50	FBP100	Al	0.04
90WAL-100	8.2-12.4	1.05	WR90	100	FBP100/ APF90B/ FBM100/ FDM100/ APF90B	Al/Cu	0.06



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P/N	Freq. (GHz)	VSWR Max.	EIA WR	Length (mm)	Flange	Mat.	N.W.
90WAL-150	8.2-12.4	1.05	WR90	150	FBP100	Al/Cu	0.07
90WAL-200	8.2-12.4	1.05	WR90	200	FBP100	Al/Cu	0.10
90WAL-300	8.2-12.4	1.05	WR90	300	FBP100	Al	0.11
90WAL-500	8.2-12.4	1.05	WR90	500	FBP100	Al	0.16
90WAL-1000	8.2-12.4	1.05	WR90	1000	FBP100	Al	0.28
75WAL-50	10-15	1.05	WR75	50	FBP120	Al	0.04
75WAL-75	10-15	1.05	WR75	75	FBP120	Al	0.05
75WAL-100	10-15	1.05	WR75	100	FBP120	Al	0.05
75WAL-200	10-15	1.05	WR75	200	FBP120	Al	0.08
75WAL-300	10-15	1.05	WR75	300	FBP120	Al	0.10
75WAL-500	10-15	1.05	WR75	500	FBP120	Al	0.14
75WAL-500_Cu	10-15	1.05	WR75	500	FBP120	Cu	0.44
75WAL-1000	10-15	1.05	WR75	1000	FBP120	Al	0.24
62WAL-50	12.4-18	1.05	WR62	50	FBP140	Al	0.035
62WAL-100	12.4-18	1.05	WR62	100	FBP140	Al	0.04
62WAL-150	12.4-18	1.05	WR62	150	FBP140	Al	0.50
62WAL-200	12.4-18	1.05	WR62	200	FBP140	Al	0.05
62WAL-300	12.4-18	1.05	WR62	300	FBP140	Al	0.06
62WAL-500	12.4-18	1.05	WR62	500	FBP140	Al	0.10
62WAL-1000	12.4-18	1.05	WR62	1000	FBP140	Al	0.17
51WAL-100_Cu	15-22	1.05	WR51	100	FBP180	Cu	0.10
42WAL-50_Cu	18-26.5	1.05	WR42	50	FBP220 /APF42	Cu	0.04
42WAL-100_Cu	18-26.5	1.05	WR42	100	FBP220	Cu	0.07
42WAL-150_Cu	18-26.5	1.05	WR42	150	FBP220	Cu	0.08
42WAL-200_Cu	18-26.5	1.05	WR42	200	FBP220	Cu	0.09
42WAL-300_Cu	18-26.5	1.05	WR42	300	FBP220	Cu	0.12
42WAL-500_Cu	18-26.5	1.05	WR42	500	FBP220	Cu	0.17
42WAL-1000_Cu	18-26.5	1.05	WR42	1000	FBP220	Cu	0.32
34WAL-50_Cu	22-33	1.05	WR34	50	FBP260	Cu	0.04
34WAL-100_Cu	22-33	1.05	WR34	100	FBP260	Cu	0.04
34WAL-150_Cu	22-33	1.05	WR34	150	FBP260	Cu	-
34WAL-200_Cu	22-33	1.05	WR34	200	FBP260	Cu	0.08
34WAL-300_Cu	22-33	1.05	WR34	300	FBP260	Cu	0.10
34WAL-500_Cu	22-33	1.05	WR34	500	FBP260	Cu	0.16
28WAL-20_Cu	26.5-40	1.05	WR28	20	FBP320	Cu	0.02
28WAL-25.4_Cu	26.5-40	1.05	WR28	25.40	FBP320	Cu	0.02
28WAL-50_Cu	26.5-40	1.05	WR28	50	FBP320	Cu	0.03
28WAL-100_Cu	26.5-40	1.05	WR28	100	FBP320	Cu	0.54
28WAL-150_Cu	26.5-40	1.05	WR28	150	FBP320	Cu	0.04
28WAL-200_Cu	26.5-40	1.05	WR28	200	FBP320	Cu	0.10



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P/N	Freq. (GHz)	VSWR Max.	EIA WR	Length (mm)	Flange	Mat.	N.W.
28WAL-300_Cu	26.5-40	1.05	WR28	300	FBP320	Cu	0.14
28WAL-500_Cu	26.5-40	1.05	WR28	500	FBP320	Cu	0.22
28WAL-1000_Cu	26.5-40	1.05	WR28	1000	FBP320	Cu	0.42
22WAL-50_Cu	33-50	1.10	WR22	50	FUGP400	Cu	0.045
22WAL-100_Cu	33-50	1.10	WR22	100	FUGP400	Cu	0.06
22WAL-200_Cu	33-50	1.10	WR22	200	FUGP400	Cu	0.08
19WAL-25.4_Cu	40-60	1.10	WR19	25.40	FUGP500	Cu	0.05
19WAL-50_Cu	40-60	1.10	WR19	50	FUGP500	Cu	0.04
19WAL-100_Cu	40-60	1.10	WR19	100	FUGP500	Cu	0.055
19WAL-200_Cu	40-60	1.10	WR19	200	FUGP500	Cu	0.07
19WAL-300_Cu	40-60	1.10	WR19	300	FUGP500	Cu	0.09
15WAL-25.4_Cu	50-75	1.10	WR15	25.40	FUGP620	Cu	0.02
15WAL-30_Cu	50-75	1.10	WR15	30	FUGP620	Cu	0.02
15WAL-50_Cu	50-75	1.10	WR15	50	FUGP620	Cu	0.02
15WAL-100_Cu	50-75	1.10	WR15	100	FUGP620	Cu	0.04
15WAL-200_Cu	50-75	1.10	WR15	200	FUGP620	Cu	0.04
15WAL-300_Cu	50-75	1.10	WR15	300	FUGP620	Cu	0.06
12WAL-25.4_Cu	60-90	1.10	WR12	25.40	FUGP740	Cu	0.02
12WAL-50_Cu	60-90	1.10	WR12	50	FUGP740	Cu	0.02
12WAL-100_Cu	60-90	1.10	WR12	100	FUGP740	Cu	0.05
12WAL-200_Cu	60-90	1.10	WR12	200	FUGP740	Cu	0.038
12WAL-300_Cu	60-90	1.10	WR12	300	FUGP740	Cu	0.05
12WAL-400_Cu	60-90	1.10	WR12	400	FUGP740	Cu	0.061
10WAL-25.4_Cu	75-110	1.10	WR10	25.40	FUGP900	Cu	0.02
10WAL-50_Cu	75-110	1.10	WR10	50	FUGP900	Cu	0.02
10WAL-100_Cu	75-110	1.10	WR10	100	FUGP900	Cu	0.02
10WAL-150_Cu	75-110	1.10	WR10	150	FUGP900	Cu	-
10WAL-200_Cu	75-110	1.10	WR10	200	FUGP900	Cu	0.04
10WAL-254_Cu	75-110	1.10	WR10	254	FUGP900	Cu	0.020
10WAL-400_Cu	75-110	1.10	WR10	400	FUGP900	Cu	0.020
10WAL-500_Cu	75-110	1.10	WR10	500	FUGP900	Cu	0.080
8WAL-30_Cu_P0P0	90-140	1.10	WR8	30	APF8	Cu	0.030
6WAL-30_Cu_P0P0	110-170	1.10	WR6	30	APF6	Cu	0.030
5WAL-30_Cu_P0P0	140-220	1.20	WR5	30	APF5	Cu	0.030
4WAL-30_Cu_P0P0	170-260	1.20	WR4	30	APF4	Cu	0.030
3WAL-30_Cu_P0P0	220-325	1.20	WR3	30	APF3	Cu	0.030



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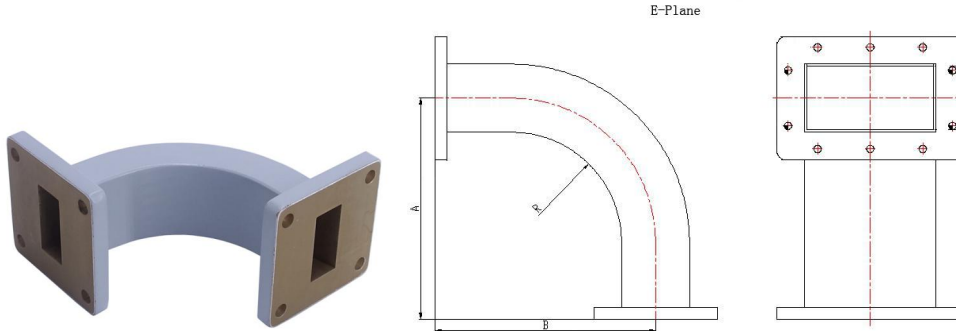
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Bend/Straight/Twist

2. Bend - Radius

90° E-Plane



P/N	Freq. (GHz)	VSWR Max.	EIA WR	Length (mm)	Flange	Mat.	N.W.
430WEB-190-190-95	1.7-2.6	1.15	WR430	190	FDP22	Al	1.17
340WEB-100-100-40	2.2-3.3	1.15	WR340	100	FDP26	Al	0.74
284WEB-100-100-40	2.6-3.95	1.10	WR284	100	FDP32	Al	0.45
284WEB-130-130/60	2.6-3.95	1.15	WR284	130	FDP32	Al	1.10
229WEB-80-80-40	3.3-4.9	1.15	WR229	80	FDP40	Al	0.30
187WEB-80-80-40	3.95-5.85	1.15	WR187	80	FDP48	Al	0.31
159WEB-80-80-40	4.9-7.05	1.15	WR159	80	FDP58	Al	-
137WEB-60-60-30	5.85-8.2	1.15	WR137	60	FDP70	Al	0.15
112WEB-50-50-25	7.05-10	1.15	WR112	50	FBP84	Al	0.08
90WEB-55-55-35	8.2-12.4	1.15	WR90	55	FBP100	Al	0.08
90WEB-50-50-20	8.2-12.4	1.10	WR90	50	FBP100	Al	0.15
90WEB-40-40-20	8.2-12.4	1.15	WR90	40	FBP100	Al	0.04
75WEB-50-50-20_Cu	10-15	1.15	WR75	50	FBP120	Cu	0.15
75WEB-40-40-20_Cu	10-15	1.15	WR75	40	FBP120	Cu	0.30
62WEB-40-40-20	12.4-18	1.15	WR62	40	FBP140	Al/ Cu	0.05
51WEB-30-30-15	15-22	1.15	WR51	30	FBP180	Al	-
51WEB-35-35-15_Cu	15-22	1.15	WR51	35	FBP180	Cu	0.16
42WEB-30-30-15	18-26.5	1.15	WR42	30	FBP220	Al/ Cu	0.01
34WEB-30-30-15_Cu	22-33	1.15	WR34	30	FBP260	Cu	0.05
28WEB-25-25-10_Cu	26.5-40	1.15	WR28	25	FBP320	Cu	0.05
22WEB-25-25-10_Cu	33-50	1.15	WR22	25	FUGP400	Cu	0.04
19WEB-25-25-10_Cu	40-60	1.15	WR19	25	FUGP500	Cu	0.10
15WEB-20-20-10_Cu	50-75	1.15	WR15	20	FUGP620	Cu	0.04
12WEB-20-20-10_Cu	60-90	1.15	WR12	20	FUGP740	Cu	0.02
10WEB-20-20-10_Cu	75-110	1.15	WR10	20	FUGP900	Cu	0.015
4WEB-25-25-10_Cu	170-260	1.15	WR4	25	UG387/U-M	Cu	0.04



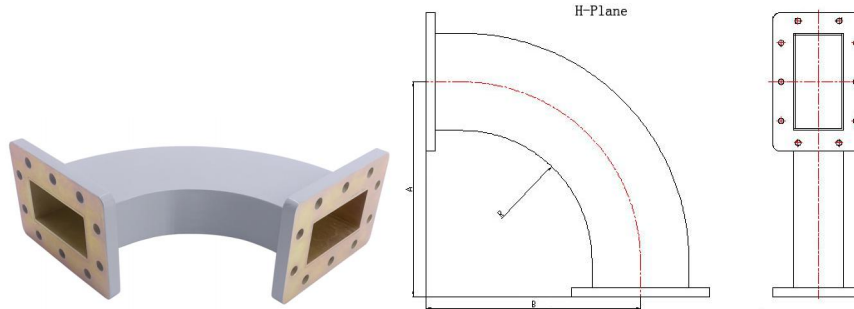
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Bend/Straight/Twist

90° H-Plane



P/N	Freq.(GHz)	VSWR Max.	EIA WR	Length (mm)	Flange	Mat.	N.W.
430WHB-250-250-152	1.7-2.6	1.15	WR430	250	FDP22	Al	-
340WHB-180-180-100	2.2-3.3	1.15	WR340	180	FDP26	Al	0.88
284WHB-160-160-100	2.6-3.95	1.15	WR284	160	FDP32	Al	0.60
229WHB-120-120-78	3.3-4.9	1.15	WR229	120	FDP40	Al	0.36
187WHB-80-80-40	3.95-5.85	1.15	WR187	80	FDP48	Al	0.24
159WHB-80-80-40	4.9-7.05	1.15	WR159	80	FDP58	Al	-
137WHB-80-80-50	5.85-8.2	1.15	WR137	80	FDP70	Al	0.16
112WHB-50-50-25	7.05-10	1.15	WR112	50	FBP84	Al	0.08
90WHB-55-55-35	8.2-12.4	1.15	WR90	55	FBP100	Al	0.06
90WHB-50-50-20	8.2-12.4	1.15	WR90	50	FBP100	Al	0.06
90WHB-38-38-20	8.2-12.4	1.15	WR90	38	FBP100	Al	0.04
75WHB-50-50-20_Cu	10-15	1.15	WR75	50	FBP120	Cu	0.15
62WHB-40-40-25	12.4-18	1.15	WR62	40	FBP140	Al	0.10
62WHB-40-40-25_Cu	12.4-18	1.15	WR62	40	FBP140	Cu	0.10
62WHB-40-40-20_Cu	12.4-18	1.15	WR62	40	FBP140	Cu	0.10
51WHB-35-35-20	15-22	1.15	WR51	35	FBP180	Cu	-
42WHB-35-35-20	18-26.5	1.15	WR42	35	FBP220	Al	0.01
42WHB-35-35-20_Cu	18-26.5	1.15	WR42	35	FBP220	Cu	0.11
34WHB-35-35-20_Cu	22-33	1.15	WR34	35	FBP260	Cu	0.08
28WHB-30-30-15_Cu	26.5-40	1.15	WR28	30	FBP320	Cu	0.03
22WHB-25-25-15_Cu	33-50	1.15	WR22	25	FUGP400	Cu	0.08
19WHB-25-25-10_Cu	40-60	1.15	WR19	25	FUGP500	Cu	0.08
15WHB-25-25-10_Cu	50-75	1.15	WR15	25	FUGP620	Cu	0.02
12WHB-16.5-16.5-10_Cu	60-90	1.15	WR12	16.50	FUGP740	Cu	0.03
12WHB-25-25-10_Cu	60-90	1.15	WR12	25	FUGP740	Cu	0.02
10WHB-25-25-10_Cu	75-110	1.15	WR10	25	FUGP900	Cu	0.015
4WHB-25-25-10_Cu	170-260	1.15	WR4	25	UG387/U-M	Cu	0.04



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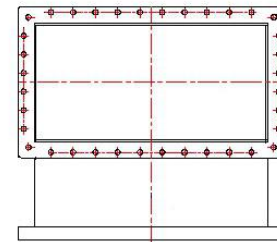
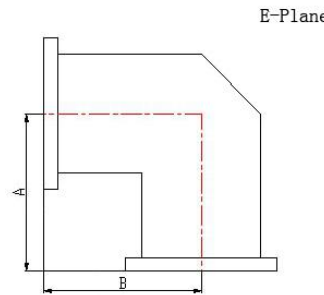
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Bend/Straight/Twist

3. Bend - Miter

90° E-Plane



P/N	Freq. (GHz)	VSWR Max.	EIA WR	Length (mm)	Flange	Mat.	N.W.
975WTEB-150-150	0.75-1.12	1.20	WR975	150	FDP9(UDR9)	Al	-
770WTEB-100-100	0.96-1.45	1.20	WR770	100	FDP12(UDR12)	Al	-
650WTEB-100-100	1.12-1.7	1.20	WR650	100	FDP14(UDR14)	Al	1.48
510WTEB-80-80	1.45-2.2	1.20	WR510	80	FDP18(UDR18)	Al	-
430WTEB-80-80	1.7-2.6	1.20	WR430	115	FDP22(UDR22)	Al	0.78
340WTEB-60-60	2.2-3.3	1.20	WR340	60	FDP26(UDR26)	Al	0.64
284WTEB-50-50	2.6-3.95	1.20	WR284	50	FDP32(UDR32)	Al	0.36
229WTEB-45-45	3.3-4.9	1.20	WR229	45	FDP40(UDR40)	Al	0.30
187WTEB-40-40	3.95-5.85	1.15	WR187	40	FDP48(UDR48)/ FDM48(PDR48)	Al	0.21
159WTEB-40-40	4.9-7.05	1.20	WR159	40	FDP58(UDR58)	Al	-
137WTEB-51-51	5.85-8.2	1.15	WR137	51	FDP70(UDR70)	Al/Cu	0.15
112WTEB-35-35	7.05-10	1.15	WR112	35	FBP84(UBR84)	Al	0.12
90WTEB-30-30	8.2-12.4	1.15	WR90	30	FBP100(UBR100)/ FBM100(PBR100)	Al	0.09
75WTEB-25-25	10-15	1.20	WR75	25	FBP120(UBR120)	Al	0.07
62WTEB-25-25	12.4-18	1.20	WR62	25	FBP140(UBR140)	Al	0.03
51WTEB-20-20_Cu	15-22	1.20	WR51	20	FBP180(UBR180)	Cu	-
42WTEB-20-20_Cu	18-26.5	1.15	WR42	20	FBP220(UBR220)	Cu	0.04
34WTEB-20-20_Cu	22-33	1.20	WR34	20	FBP260(UBR260)	Cu	0.06
28WTEB-15-15_Cu	26.5-40	1.20	WR28	15	FBP320(UBR320)	Cu	0.03



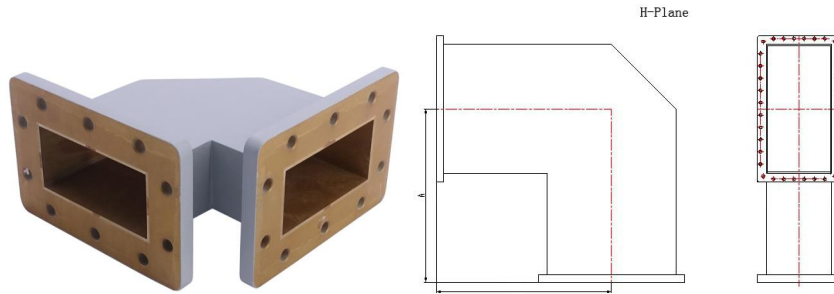
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Bend/Straight/Twist

90° H-Plane



P/N	Freq. (GHz)	VSWR Max.	EIA WR	Length (mm)	Flange	Mat.	N.W.
975WTHB-250-250	0.75-1.12	1.30	WR975	250	FDP9(UDR9)	Al	5.54
770WTHB-200-200	0.96-1.45	1.30	WR770	200	FDP12(UDR12)	Al	-
650WTHB-180-180	1.12-1.7	1.30	WR650	180	FDP14(UDR14)	Al	1.88
510WTHB-150-150	1.45-2.2	1.30	WR510	150	FDP18(UDR18)	Al	-
430WTHB-115-115	1.7-2.6	1.30	WR430	80	FDP22(UDR22)	Al	-
340WTHB-60-60	2.2-3.3	1.30	WR340	60	FDP26(UDR26)	Al	-
284WTHB-80-80	2.6-3.95	1.30	WR284	80	FDP32(UDR32)/ FDM32(PDR32)	Al	0.42
229WTHB-65-65	3.3-4.9	1.30	WR229	65	FDP40(UDR40)	Al	-
187WTHB-55-55	3.95-5.85	1.30	WR187	55	FDP48(UDR48)/ FDM48(PDR48)	Al	0.23
159WTHB-55-55	4.9-7.05	1.30	WR159	55	FDP58(UDR58)	Al	-
137WTHB-51-51	5.85-8.2	1.30	WR137	51	FDP70(UDR70)	Al	0.14
112WTHB-35-35	7.05-10	1.30	WR112	35	FBP84(UBR84)	Al	0.10
90WTHB-30-30	8.2-12.4	1.30	WR90	30	FBP100(UBR100)	Al	0.07
75WTHB-25-25	10-15	1.30	WR75	25	FBP120(UBR120)	Al	0.07
62WTHB-25-25	12.4-18.0	1.30	WR62	25	FBP120(UBR120)	Al	0.05
51WTHB-20-20_Cu	15-22	1.30	WR51	20	FBP220(UBR220)	Cu	-
42WTHB-20-20_Cu	18-26.5	1.30	WR42	20	FBP220(UBR220)	Cu	0.06
34WTHB-20-20_Cu	22-33	1.30	WR34	20	FBP220(UBR220)	Cu	0.05
28WTHB-15-15_Cu	26.5-40.0	1.30	WR28	15	FBP220(UBR220)	Cu	0.03



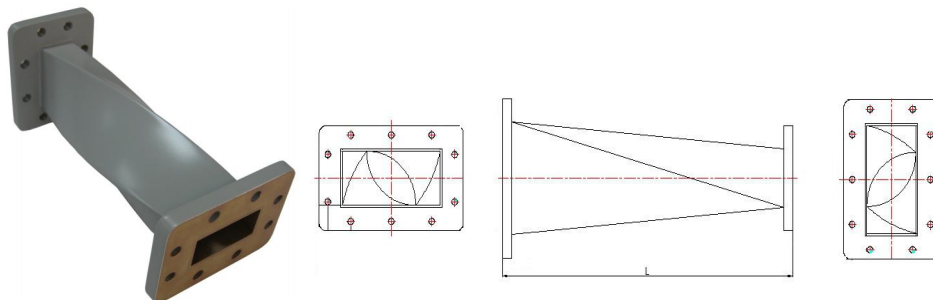
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Bend/Straight/Twist

4. Twist WG - Rectangular



P/N	Freq. (GHz)	VSWR Max	EIA WR	Length (mm)	Flange	Mat.	N.W.
430WTA-800	1.7-2.6	1.10	WR430	800	FDP22(UDR22)	Al	1.46
340WTA-500	2.2-3.3	1.10	WR340	500	FDP26(UDR26)	Al	1.18
229WTA-250_Cu	3.3-4.9	1.10	WR229	250	FDP40(UDR40)	Cu	1.25
187WTA-200	3.95-5.85	1.10	WR187	200	FDP48(UDR48)	Al	0.30
159WTA-200	4.9-7.05	1.10	WR159	200	FDP58(UDR58)	Al	0.30
137WTA-150L	5.85-8.2	1.10	WR137	150	FDP70(UDR70)	Al	0.16
112WTA-120	7.05-10	1.10	WR112	120	FBP84(UBR84)	Al	0.07
90WTA-100	8.2-12.4	1.10	WR90	100	FBP100(UBR100)	Al	0.06
75WTA-100_Cu	10-15	1.10	WR75	100	FBP120(UBR120)	Cu	0.16
75WTA-120_Cu_BPBM	10-15	1.10	WR75	120	FBP120(UBR120)	Cu	0.16
62WTA-75_Cu_BMBM	12.4-18	1.10	WR62	75	FBM140(PBR140)	Cu	0.10
51WTA-70_Cu	15-22	1.10	WR51	70	FBP180(UBR180)	Cu	0.10
42WTA-60_Cu	18-26.5	1.10	WR42	60	FBP220(UBR220)	Cu	0.04
34WTA-55_Cu	22-33	1.10	WR34	55	FBP260(UBR260)	Cu	0.04
28WTA-55_Cu	26.5-40	1.10	WR28	55	FBP320(UBR320)	Cu	0.06
22WTAS-25.4_Cu	33-50	1.10	WR22	25.4	FUGP400(UG-383/U)	Cu	0.07
22WTAS-50_Cu	33-50	1.10	WR22	50	FUGP400(UG-383/U)	Cu	0.11
22WTA-50_Cu	33-50	1.10	WR22	50	FUGP400(UG-383/U)	Cu	0.04
19WTAS-25.4_Cu	40-60	1.10	WR19	25.4	FUGP500(UG-383/U-M)	Cu	0.07
19WTAS-50_Cu	40-60	1.10	WR19	50	FUGP500(UG-383/U-M)	Cu	0.11
15WTAS-25.4_Cu	50-75	1.10	WR15	25.4	FUGP620(UG-385/U)	Cu	0.03
15WTAS-50_Cu	50-75	1.10	WR15	50	FUGP620(UG-385/U)	Cu	0.05
15WTA-50_Cu	50-75	1.10	WR15	50	FUGP620(UG-385/U)	Cu	0.02



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P/N	Freq. (GHz)	VSWR Max	EIA WR	Length (mm)	Flange	Mat.	N.W.
12WTAS-50_Cu	60-90	1.10	WR12	50	FUGP740(UG-387/U)	Cu	-
12WTAS-25.4_Cu	60-90	1.10	WR12	25.4	FUGP740(UG-387/U)	Cu	-
12WTA-50_Cu	60-90	1.10	WR12	50	FUGP740(UG-387/U)	Cu	-
12WTA-25.4_Cu	60-90	1.10	WR12	25.4	FUGP740(UG-387/U)	Cu	0.02
10WTAS-25.4_Cu	75-110	1.15	WR10	25.4	FUGP900(UG-387/U-M)	Cu	0.03
10WTAS-50_Cu	75-110	1.15	WR10	50	FUGP900(UG-387/U-M)	Cu	0.05
10WTA-50_Cu	75-110	1.15	WR10	50	FUGP900(UG-387/U-M)	Cu	0.02
8WTAS-25.4_Cu	90-140	1.15	WR8	25.4	UG-387/U-M	Cu	0.03
6WTAS-25.4_Cu	110-170	1.15	WR6	25.4	UG-387/U-M	Cu	0.03
5WTAS-25.4_Cu	140-220	1.15	WR5	25.4	UG-387/U-M	Cu	0.03
4WTAS-25.4_Cu	170-260	1.15	WR4	25.4	UG-387/U-M	Cu	0.03
3WTAS-25.4_Cu	220-325	1.15	WR3	25.4	UG-387/U-M	Cu	0.03
12WTAS-50_Cu	60-90	1.10	WR12	50	FUGP740(UG-387/U)	Cu	-
12WTAS-25.4_Cu	60-90	1.10	WR12	25.4	FUGP740(UG-387/U)	Cu	-
12WTA-50_Cu	60-90	1.10	WR12	50	FUGP740(UG-387/U)	Cu	-
12WTA-25.4_Cu	60-90	1.10	WR12	25.4	FUGP740(UG-387/U)	Cu	0.02
10WTAS-25.4_Cu	75-110	1.15	WR10	25.4	FUGP900(UG-387/U-M)	Cu	0.03
10WTAS-50_Cu	75-110	1.15	WR10	50	FUGP900(UG-387/U-M)	Cu	0.05
10WTA-50_Cu	75-110	1.15	WR10	50	FUGP900(UG-387/U-M)	Cu	0.02
8WTAS-25.4_Cu	90-140	1.15	WR8	25.4	UG-387/U-M	Cu	0.03
6WTAS-25.4_Cu	110-170	1.15	WR6	25.4	UG-387/U-M	Cu	0.03
5WTAS-25.4_Cu	140-220	1.15	WR5	25.4	UG-387/U-M	Cu	0.03
4WTAS-25.4_Cu	170-260	1.15	WR4	25.4	UG-387/U-M	Cu	0.03
3WTAS-25.4_Cu	220-325	1.15	WR3	25.4	UG-387/U-M	Cu	0.03



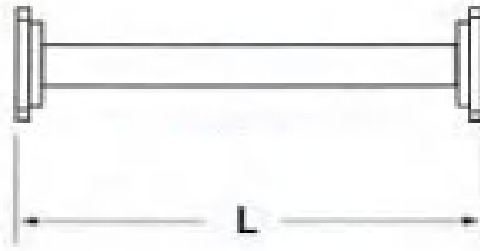
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Bend/Straight/Twist

5. Straight WG - Double Ridge



P/N	Freq.(GHz)	VSWR Max.	EIA WR	Length (mm)	Flange	Mat.	N.W.
180DRWAL-150_Cu	18-40	1.15	WRD180	150	FPWRD180C24	Cu	0.22
250DRWAL-200	2.6-7.8	1.15	WRD250	200	FPWRD250D30	Cu	0.50
350DRWAL-210	3.5-8.2	1.15	WRD350	210	FPWRD350D24	Al	0.36
475DRWAL-150	4.75-11	1.15	WRD475	150	FPWRD475D24	Al	-
650DRWAL-150_Cu	6.5-18	1.15	WRD650	150	FPWRD650D28	Cu	0.25
650DRWAL-200_Cu	6.5-18	1.15	WRD650	200	FPWRD650D28	Cu	-
650DRWAL-1000_Cu	6.5-18	1.15	WRD650	1000	FPWRD650D28	Cu	0.84
650DRWAL-1016_Cu	6.5-18	1.15	WRD650	1016	FPWRD650D28	Cu	0.75
750DRWAL-100_Cu	7.5-18	1.15	WRD750	100	FPWRD750D24	Cu	0.17
750DRWAL-150_Cu	7.5-18	1.15	WRD750	150	FPWRD750D24	Cu	0.22
750DRWAL-200_Cu	7.5-18	1.15	WRD750	200	FPWRD750D24	Cu	0.26
750DRWAL-300_Cu	7.5-18	1.15	WRD750	300	FPWRD750D24	Cu	0.33
750DRWAL-305_Cu	7.5-18	1.15	WRD750	305	FPWRD750D24	Cu	0.33
750DRWAL-500_Cu	7.5-18	1.15	WRD750	500	FPWRD750D24	Cu	0.47
750DRWAL-600_Cu	7.5-18	1.15	WRD750	600	FPWRD750D24	Cu	0.55
750DRWAL-610_Cu	7.5-18	1.15	WRD750	610	FPWRD750D24	Cu	0.55



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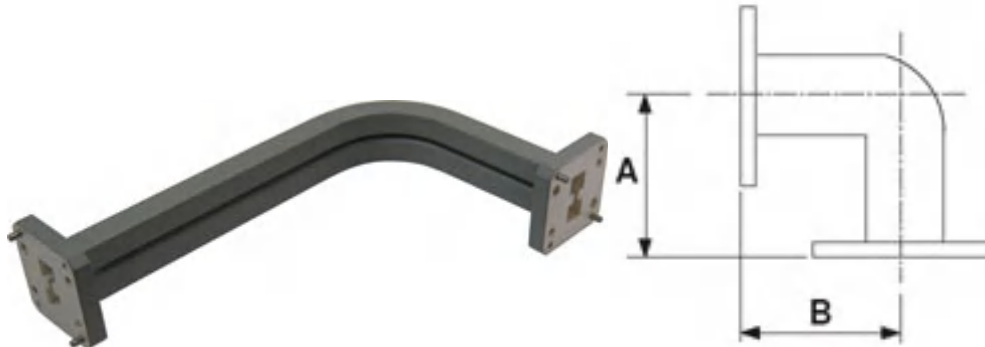
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Bend/Straight/Twist

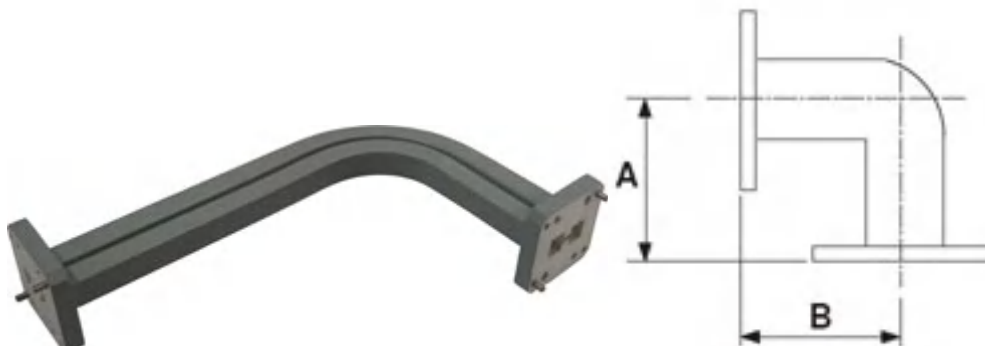
6. Bend - Double Ridge

E-Plane



P/N	Freq. (GHz)	VSWR Max.	EIA WRD	Length (mm)	Flange	Mat.	N.W.
650DRWEB-50-50_Cu	6.5-18	1.20	WRD650	50	FPWRD650D28	Cu	-
750DRWEB-50-50_Cu	7.5-18	1.20	WRD750	50	FPWRD750D24	Cu	0.37

H-Plane



P/N	Freq. (GHz)	VSWR Max.	EIA WRD	Length (mm)	Flange	Mat.	N.W.
750DRWHB-60-60_Cu	7.5-18	1.20	WRD750	60	FPWRD750D24	Cu	0.187



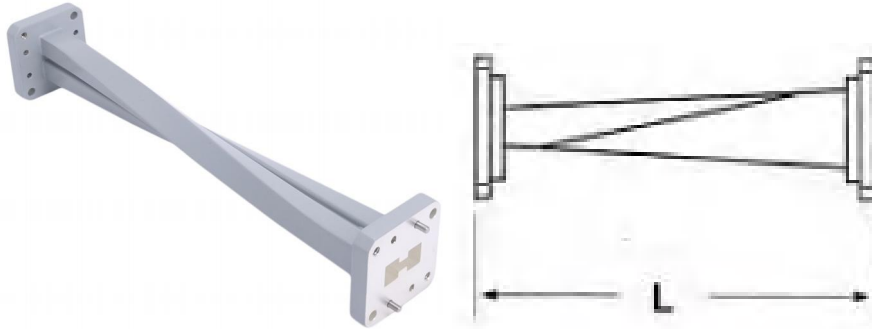
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Bend/Straight/Twist

7. Twist WG - Double Ridge



P/N	Freq. (GHz)	VSWR Max	EIA WRD	Length (mm)	Flange	Mat.	N.W.
650DRWTA-200L_Cu	6.5-18	1.25	WRD650	200	FPWRD650D28	Cu	0.25
750DRWTA-100/45_Cu	7.5-18	1.25	WRD750	100	FPWRD750D24	Cu	0.169
750DRWTA-150_Cu	7.5-18	1.25	WRD750	150	FPWRD750D24	Cu	0.20
750DRWTA-200_Cu	7.5-18	1.25	WRD750	200	FPWRD750D24	Cu	0.25



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WG Short Plates

WG Short Plates

1. WG Short Plates



Figure 1

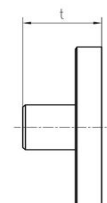


Figure 2

Waveguide short plate are designed to terminate round or rectangular waveguide connectors at the mating plane. They are used to establish a reference plane in systems and in making loss measurements. They are flat face/flat plane shorts that cover frequencies from 0.75GHz to 110.0GHz. They may be ordered with user-specified flanges; with or without A-INFO precision indexing holes.

EIA WR	Freq. (GHz)	WG Fixed Flush Shorts			Flange	Mat.	N.W.
		P/N	Figure	T (mm)			
WR975	0.75-1.12	975WS	Figure1	14	FDP9	Al	2.74
WR770	0.96-1.45	770WS	Figure1	12	FDP12	Al	1.75
WR650	1.12-1.70	650WS	Figure1	12	FDP14	Al	1
WR510	1.45-2.20	510WS	Figure1	12	FDP18	Al	0.75
WR430	1.70-2.60	430WS	Figure1	10	FDP22	Al	0.50
WR340	2.20-3.30	340WS	Figure1	10	FDP26	Al	0.40
WR284	2.60-3.95	284WS	Figure1	8	FDP32/ APF284B	Al	0.20
WR229	3.30-4.90	229WS	Figure1	8	FDP40	Al	0.15
WR187	3.95-5.85	187WS	Figure1	7	FDP48/ APF187	Al	0.13
WR159	4.90-7.05	159WS	Figure1	7	FDP58	Al	0.10
WR137	5.85-8.20	137WS	Figure1	7	FDP70/ APF137	Al	0.07
WR112	7.05-10.0	112WS	Figure1	5	FBP84/ APF112	Al	0.05
WR90	8.20-12.4	90WS_Cu	Figure1	5	FBP100 /APF90/ APF90A	Cu	0.07
WR75	10.0-15.0	75WS_Cu	Figure1	5	FBP120/ FDP120	Cu	0.06
WR62	12.4-18.0	62WS_Cu	Figure1	5	FBP140/ FDP140	Cu	0.05
WR51	15.0-22.0	51WS_Cu	Figure1	5	FBP180/ APF51A/ APF51B/ FDP180	Cu	0.03
WR42	18.0-26.5	42WS_Cu	Figure1	4	FBP220	Cu	0.01
WR34	22.0-33.0	34WS_Cu	Figure1	4	FBP260/ APF34	Cu	0.01
WR28	26.5-40.0	28WS_Cu	Figure1	3	FBP320	Cu	0.01
WR22	33.0-50.0	22WS_Cu	Figure2	12	FUGP400	Cu	0.02
WR19	40.0-60.0	19WS_Cu	Figure2	12	FUGP500	Cu	0.02
WR15	50.0-75.0	15WS_Cu	Figure2	10	FUGP620	Cu	0.01
WR12	60.0-90.0	12WS_Cu	Figure2	10	FUGP740	Cu	0.01
WR10	75.0-110.0	10WS_Cu	Figure2	10	FUGP900	Cu	0.01



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WG Short Plates

2. Offset Short

1/8 and 3/8 Wavelength Offset Short



Offset shorts with 1/8 and 3/8 wavelength offsets are considered one of the more accurate means of obtaining a 180° phase difference in waveguide. Using these single-piece devices will reduce the number of flange interfaces during calibration. This helps to maintain an essentially constant magnitude of current flow across the calibration plane.

The chart below lists the offset shorts available from A-INFO. Those in rectangular guide are nominally 1/8 and 3/8 wavelength offset at a frequency near the waveguide band center. These will not be the exact band center as the frequency is chosen to equalize the phase differences at the band edges.

These are also available with a custom shorting distance as a special order. Please send us your inquiry and discuss your needs.

EIA WR	Freq. (GHz)	1/8 WOFS		3/8 WOFS		Flange	Mat.
		P/N	Offset (mm)	P/N	Offset (mm)		
WR975	0.75-1.12	975WOFS18	54.09	975WOFS38	162.32	FDP9	Al
WR770	0.96-1.45	770WOFS18	41.43	770WOFS38	124.29	FDP12	Al
WR650	1.12-1.70	650WOFS18	35.81	650WOFS38	107.42	FDP14	Al
WR510	1.45-2.20	510WOFS18	27.3	510WOFS38	81.91	FDP18	Al
WR430	1.70-2.60	430WOFS18	23.34	430WOFS38	70.01	APF430	Al
WR340	2.20-3.30	340WOFS18	18.02	340WOFS38	54.07	APF340	Al
WR284	2.60-3.95	284WOFS18	15.23	284WOFS38	45.68	FDP32	Al
WR229	3.30-4.90	229WOFS18	12.03	229WOFS38	36.1	APF229	Al
WR187	3.95-5.85	187WOFS18	10.26	187WOFS38	30.77	FDP48	Al
WR159	4.90-7.05	159WOFS18	8.15	159WOFS38	24.46	APF159	Al
WR137	5.85-8.20	137WOFS18	6.85	137WOFS38	20.54	FDP70	Al
WR112	7.05-10.0	112WOFS18	5.68	112WOFS38	17.03	APF112B	Al
WR90	8.20-12.4	90WOFS18_Cu	4.85	90WOFS38_Cu	14.55	APF90B	Cu
WR75	10.0-15.0	75WOFS18_Cu	3.96	75WOFS38_Cu	11.87	APF75B	Cu
WR62	12.4-18.0	62WOFS18_Cu	3.22	62WOFS38_Cu	9.66	APF62	Cu
WR51	15.0-22.0	51WOFS18_Cu	2.65	51WOFS38_Cu	7.96	APF51C	Cu
WR42	18.0-26.5	42WOFS18_Cu	2.22	42WOFS38_Cu	6.67	APF42	Cu
WR34	22.0-33.0	34WOFS18_Cu	1.8	34WOFS38_Cu	5.41	FBP260	Cu
WR28	26.5-40.0	28WOFS18_Cu	1.51	28WOFS38_Cu	4.49	APF28	Cu
WR22	33.0-50.0	22WOFS18_Cu	1.21	22WOFS38_Cu	3.6	APF22	Cu
WR19	40.0-60.0	19WOFS18_Cu	0.99	19WOFS38_Cu	2.96	APF19	Cu
WR15	50.0-75.0	15WOFS18_Cu	0.8	15WOFS38_Cu	2.4	APF15	Cu
WR12	60.0-90.0	12WOFS18_Cu	0.67	12WOFS38_Cu	2.02	APF12	Cu
WR10	75.0-110.0	10WOFS18_Cu	0.54	10WOFS38_Cu	1.62	APF10	Cu

WG Short Plates

1/4 Wavelength Offset Short



The chart below lists the 1/4 offset shorts available from A-INFO. Those in rectangular guide are nominally 1/4 wavelength offset at a frequency near the waveguide band center. These will not be the exact band center as the frequency is chosen to equalize the phase differences at the band edges.

These are also available with a custom shorting distance as a special order. Please send us your inquiry and discuss your needs.

Please refer to the Standard Flange Information section for standard flange type

Please refer to the Precision Flange Information section for precision flange type (APF)

EIA WR	Freq. (GHz)	1/4 WOFS		Flange	Mat.
		P/N	T (mm)		
WR975	0.75-1.12	975WOFS14	108.21	FDP9	Al
WR770	0.96-1.45	770WOFS14	82.86	FDP12	Al
WR650	1.12-1.70	650WOFS14	71.62	FDP14	Al
WR510	1.45-2.20	510WOFS14	54.61	FDP18	Al
WR430	1.70-2.60	430WOFS14	46.68	APF430	Al
WR340	2.20-3.30	340WOFS14	36.05	APF340	Al
WR284	2.60-3.95	284WOFS14	30.45	FDP32	Al
WR229	3.30-4.90	229WOFS14	24.06	APF229	Al
WR187	3.95-5.85	187WOFS14	20.51	FDP48	Al
WR159	4.90-7.05	159WOFS14	16.31	APF159	Al
WR137	5.85-8.20	137WOFS14	13.69	FDP70	Al
WR112	7.05-10.0	112WOFS14	11.36	APF112B/FDP84	Al
WR90	8.20-12.4	90WOFS14_Cu	9.7	APF90B	Cu
WR75	10.0-15.0	75WOFS14_Cu	7.91	APF75B	Cu
WR62	12.4-18.0	62WOFS14_Cu	6.44	APF62	Cu
WR51	15.0-22.0	51WOFS14_Cu	5.31	APF51C	Cu
WR42	18.0-26.5	42WOFS14_Cu	4.45	APF42	Cu
WR34	22.0-33.0	34WOFS14_Cu	3.6	FBP260	Cu
WR28	26.5-40.0	28WOFS14_Cu	2.99	APF28	Cu
WR22	33.0-50.0	22WOFS14_Cu	2.4	APF22	Cu
WR19	40.0-60.0	19WOFS14_Cu	1.97	APF19	Cu
WR15	50.0-75.0	15WOFS14_Cu	1.6	APF15	Cu
WR12	60.0-90.0	12WOFS14_Cu	1.35	APF12	Cu
WR10	75.0-110.0	10WOFS14_Cu	1.08	APF10	Cu



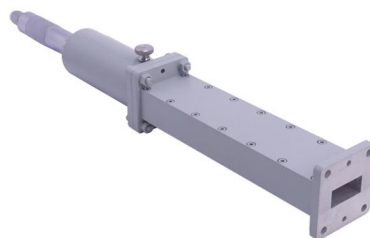
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WG Short Plates

3. Sliding Short



A-INFO waveguide sliding short are low loss, non-contacting, movable shorts for use in a variety of microwave systems. They are valuable for establishing a reference impedance for the calibration and error analysis of waveguide measurement systems. The sliding shorts are adjustable over more than half wavelength in waveguide at lowest frequency of operation.

A-INFO offers two grades of waveguide sliding shorts; WSS series, featuring a sliding shaft with a position lock; WPSS series, featuring a 0.01mm resolution micrometer drive with a position lock for fine adjustment. Both WSS and WPSS series offer variety of flange for different application. For WPSS series, A-INFO APF precision flange is recommend for high precision measurements.

EIA WR	Frequency (GHz)	Precision Version	General Version	VSWR (Min.)	Flange	Mat.
		P/N	P/N			
WR650	1.12-1.70	650WPSS	650WSS	50	FDP14	Al
WR510	1.45-2.20	510WPSS	510WSS	50	FDP18	Al
WR430	1.70-2.60	430WPSS_P0	430WSS	50	FDP22/APF430	Al
WR340	2.20-3.30	340WPSS_P0	340WSS	50	FDP26/APF340	Al
WR284	2.60-3.95	284WPSS_PB	284WSS	50	FDP32/APF284B	Al
WR229	3.30-4.90	229WPSS_P0	229WSS	50	FDP40/APF229	Al
WR187	3.95-5.85	187WPSS_P0	187WSS	50	FDP48/APF187	Al
WR159	4.90-7.05	159WPSS_P0	159WSS	50	FDP58/APF159	Al
WR137	5.85-8.20	137WPSS_P0	137WSS	50	FDP70/APF137	Al
WR112	7.05-10.0	112WPSS_PB	112WSS	50	FBP84/APF112B	Al
WR90	8.20-12.4	90WPSS_PB	90WSS	50	FBP100/APF90B	Al
WR75	10.0-15.0	75WPSS_PB	75WSS	50	FBP120/APF75B	Al
WR62	12.4-18.0	62WPSS_P0	62WSS	50	FBP140/APF62	Al
WR51	15.0-22.0	51WPSS_Cu_PC	51WSS_Cu	50	FBP180/APF51C	Cu
WR42	18.0-26.5	42WPSS_Cu_P0	42WSS_Cu	50	FBP220/APF42	Cu
WR34	22.0-33.0	34WPSS_Cu_P0	34WSS_Cu	50	FBP260/APF34	Cu
WR28	26.5-40.0	28WPSS_Cu_P0	28WSS_Cu	50	FBP320/APF28	Cu
WR22	33.0-50.0	22WPSS_Cu_P0	22WSS_Cu	50	FUGP400/APF22	Cu
WR19	40.0-60.0	19WPSS_Cu_P0	19WSS_Cu	50	FUGP500/APF19	Cu
WR15	50.0-75.0	15WPSS_Cu_P0	15WSS_Cu	50	FUGP620/APF15	Cu
WR12	60.0-90.0	12WPSS_Cu_P0	12WSS_Cu	50	FUGP740/APF12	Cu
WR10	75.0-110.0	10WPSS_Cu_P0	10WSS_Cu	50	FUGP900/APF10	Cu



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WG Short Plates

4. WG Short Plates - Double Ridge



Double ridge waveguide short plate are designed to terminate round or rectangular waveguide connectors at the mating plane. They are used to establish a reference plane in systems and in making loss measurements. They are flat face/flat plane shorts that cover frequencies from 0.84GHz to 40.0GHz. They may be ordered with user-specified flanges; with or without A-INFO precision indexing holes.

EIA WRD	Frequency (GHz)	WG Fixed Flush Shorts	Flange	Mat.
		P/N		
WRD84	0.84-2.0	84DRWS	FPWRD84D24	Al
WRD200	2.0-4.8	200DRWS	FPWRD200D24	Al
WRD250	2.6-7.8	250DRWS	FPWRD250D30	Al
WRD350	3.5-8.2	350DRWS	FPWRD350D24	Al
WRD475	4.75-11.0	475DRWS_Cu	FPWRD475D24	Cu
WRD580	5.8-16.0	580DRWS_Cu	FPWRD580D28	Cu
WRD650	6.5-18.0	650DRWS_Cu	FPWRD650D28	Cu
WRD750	7.5-18.0	750DRWS_Cu	FPWRD750D24	Cu
WRD110	11.0-26.5	110DRWS_Cu	FPWRD110C24	Cu
WRD180	18.0-40.0	180DRWS_Cu	FPWRD180C24	Cu



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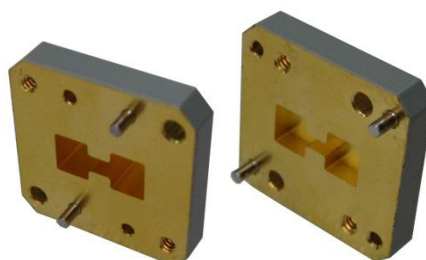
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WG Short Plates

5. WG Offset Short - Double Ridge

Double Ridge 1/8 and 3/8 Wavelength Offset Short



Double ridge offset shorts with 1/8 and 3/8 wavelength offsets are considered one of the more accurate means of obtaining a 180° phase difference in waveguide. Using these single-piece devices will reduce the number of flange interfaces during calibration. This helps to maintain an essentially constant magnitude of current flow across the calibration plane.

The chart below lists the offset shorts available from A-INFO. Those in rectangular guide are nominally 1/8 and 3/8 wavelength offset at a frequency near the waveguide band center. These will not be the exact band center as the frequency is chosen to equalize the phase differences at the band edges.

These are also available with a custom shorting distance as a special order. Please send us your inquiry and discuss your needs.

EIA WRD	Frequency (GHz)	1/8 DRWOFs	3/8 DRWOFs	Flange	Mat.
		P/N	P/N		
WRD84	0.84-2.0	84DRWOFs18	84DRWOFs38	FPWRD84D24	Al
WRD200	2.0-4.8	200DRWOFs18	200DRWOFs38	FPWRD200D24	Al
WRD250	2.6-7.8	250DRWOFs18	250DRWOFs38	FPWRD250D30	Al
WRD350	3.5-8.2	350DRWOFs18	350DRWOFs38	FPWRD350D24	Al
WRD475	4.75-11.0	475DRWOFs18_Cu	475DRWOFs38_Cu	FPWRD475D24	Cu
WRD580	5.8-16.0	580DRWOFs18_Cu	580DRWOFs38_Cu	FPWRD580D28	Cu
WRD650	6.5-18.0	650DRWOFs18_Cu	650DRWOFs38_Cu	FPWRD650D28	Cu
WRD750	7.5-18.0	750DRWOFs18_Cu	750DRWOFs38_Cu	FPWRD750D24	Cu
WRD110	11.0-26.5	110DRWOFs18_Cu	110DRWOFs38_Cu	FPWRD110C24	Cu
WRD180	18.0-40.0	180DRWOFs18_Cu	180DRWOFs38_Cu	FPWRD180C24	Cu



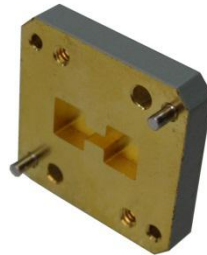
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WG Short Plates

Double Ridge 1/4 Wavelength Offset Short



The chart below lists the 1/4 offset shorts available from A-INFO. Those in rectangular guide are nominally 1/4 wavelength offset at a frequency near the waveguide band center. These will not be the exact band center as the frequency is chosen to equalize the phase differences at the band edges.

These are also available with a custom shorting distance as a special order. Please send us your inquiry and discuss your needs.

EIA WRD	Frequency (GHz)	P/N	Flange	Mat.
WRD84	0.84-2.0	84DRWOFS14	FPWRD84D24	Al
WRD200	2.0-4.8	200DRWOFS14	FPWRD200D24	Al
WRD250	2.6-7.8	250DRWOFS14	FPWRD250D30	Al
WRD350	3.5-8.2	350DRWOFS14	FPWRD350D24	Al
WRD475	4.75-11.0	475DRWOFS14_Cu	FPWRD475D24	Cu
WRD580	5.8-16.0	580DRWOFS14_Cu	FPWRD580D28	Cu
WRD650	6.5-18.0	650DRWOFS14_Cu	FPWRD650D28	Cu
WRD750	7.5-18.0	750DRWOFS14_Cu	FPWRD750D24	Cu
WRD110	11.0-26.5	110DRWOFS14_Cu	FPWRD110C24	Cu
WRD180	18.0-40.0	180DRWOFS14_Cu	FPWRD180C24	Cu



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WG Spacer(Shim)

WG Spacer

1. WG Spacer

WG Spacer - 1/4 Wavelength (Shim)



1/4 Wavelength Spacer(Shim) is mostly used in WG calibration kits. This is also called an offset, or 1/4 Wavelength section. The shim is terminated by the short, fixed load, or the second test port of the analyzer.

EIA WR	Freq. (GHz)	1/4 WSPA (Shim)		Flange	Mat.
		P/N	T (mm)		
WR2300	0.32-0.49	2300WSPA14	246.27	FDP3	Al
WR2100	0.35-0.53	2100WSPA14	227.81	FDP4	Al
WR1800	0.41-0.62	1800WSPA14	194.07	FDP5	Al
WR1500	0.49-0.75	1500WSPA14	161.07	FDP6	Al
WR1150	0.64-0.96	1150WSPA14	123.13	FDP8	Al
WR975	0.75-1.12	975WSPA14	108.21	FDP9	Al
WR770	0.96-1.45	770WSPA14	82.86	FDP12	Al
WR650	1.12-1.70	650WSPA14	71.62	FDP14	Al
WR510	1.45-2.20	510WSPA14	54.61	FDP18	Al
WR430	1.70-2.60	430WSPA14	46.68	APF430	Al
WR340	2.20-3.30	340WSPA14	36.05	APF340	Al
WR284	2.60-3.95	284WSPA14	30.45	FDP32	Al
		284WSPA14_PB		APF284B	
WR229	3.30-4.90	229WSPA14	24.06	APF229	Al
WR187	3.95-5.85	187WSPA14	20.51	FDP48	Al
		187WSPA14_P0		APF187	
WR159	4.90-7.05	159WSPA14	16.31	APF159	Al
WR137	5.85-8.20	137WSPA14	13.69	FDP70	Al
		137WSPA14_P0		APF137	
WR112	7.05-10.0	112WSPA14	11.36	APF112B	Al
		112WSPA14_P0		APF112	
WR90	8.20-12.4	90WSPA14_Cu	9.7	APF90B	Cu
		90WSPA14_Cu_P0		APF90	
		90WSPA14_Cu_PA		APF90A	
WR75	10.0-15.0	75WSPA14_Cu	7.91	APF75B	Cu
		75WSPA14_Cu_DP		FDP120	
WR62	12.4-18.0	62WSPA14_Cu	6.44	APF62	Cu
		62WSPA14_Cu_DP		FDP140	



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WG Spacer(Shim)

EIA WR	Freq. (GHz)	1/4 WSPA (Shim)		Flange	Mat.
		P/N	T (mm)		
WR51	15.0-22.0	51WSPA14_Cu	5.31	APF51C	Cu
		51WSPA14_Cu_PA		APF51A	
		51WSPA14_Cu_PB		APF51B	
		51WSPA14_Cu_DP		FDP180	
WR42	18.0-26.5	42WSPA14_Cu	4.45	APF42	Cu
WR34	22.0-33.0	34WSPA14_Cu	3.6	FBP260	Cu
		34WSPA14_Cu_P0		APF34	
WR28	26.5-40.0	28WSPA14_Cu	2.99	APF28	Cu
WR22	33.0-50.0	22WSPA14_Cu	2.4	APF22	Cu
WR19	40.0-60.0	19WSPA14_Cu	1.97	APF19	Cu
WR15	50.0-75.0	15WSPA14_Cu	1.6	APF15	Cu
WR12	60.0-90.0	12WSPA14_Cu	1.35	APF12	Cu
WR10	75.0-110.0	10WSPA14_Cu	1.08	APF10	Cu
WR8	90.0-140.0	8WSPA14_Cu_P0	0.88	APF8	Cu



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WG Spacer(Shim)

WG Spacer - Customized (Shim)



A-INFO manufactures a wide variety of shims to bridge a gap between two pieces of WG. Customized spacers(shims) are available up to 25.4mm thickness. After that see our standard line of straight sections.

EIA WR	Freq. (GHz)	P/N	Flange	Mat.
WR975	0.75-1.12	975WSPA-XX	FDP9	Al
WR770	0.96-1.45	770WSPA-XX	FDP12	Al
WR650	1.12-1.70	650WSPA-XX	FDP14	Al
WR510	1.45-2.20	510WSPA-XX	FDP18	Al
WR430	1.70-2.60	430WSPA-XX	APF430	Al
WR340	2.20-3.30	340WSPA-XX	APF340	Al
WR284	2.60-3.95	284WSPA-XX	FDP32	Al
		284WSPA-XX_PB	APF284B	
WR229	3.30-4.90	229WSPA-XX	APF229	Al
WR187	3.95-5.85	187WSPA-XX	FDP48	Al
		187WSPA-XX_P0	APF187	
WR159	4.90-7.05	159WSPA-XX	APF159	Al
WR137	5.85-8.20	137WSPA-XX	FDP70	Al
		137WSPA-XX_P0	APF137	
WR112	7.05-10.0	112WSPA-XX	APF112B	Al
		112WSPA-XX_P0	APF112	
WR90	8.20-12.4	90WSPA-XX_Cu	APF90B	Cu
		90WSPA-XX_Cu_P0	APF90	
		90WSPA-XX_Cu_PA	APF90A	
WR75	10.0-15.0	75WSPA-XX_Cu	APF75B	Cu
WR62	12.4-18.0	62WSPA-XX_Cu	APF62	Cu
WR51	15.0-22.0	51WSPA-XX_Cu	APF51C	Cu
		51WSPA-XX_Cu_PA	APF51A	
		51WSPA-XX_Cu_PB	APF51B	
WR42	18.0-26.5	42WSPA-XX_Cu	APF42	Cu
WR34	22.0-33.0	34WSPA-XX_Cu	FBP260	Cu
		34WSPA-XX_Cu_P0	APF34	
WR28	26.5-40.0	28WSPA-XX_Cu	APF28	Cu
WR22	33.0-50.0	22WSPA-XX_Cu	APF22	Cu
WR19	40.0-60.0	19WSPA-XX_Cu	APF19	Cu
WR15	50.0-75.0	15WSPA-XX_Cu	APF15	Cu
WR12	60.0-90.0	12WSPA-XX_Cu	APF12	Cu
WR10	75.0-110.0	10WSPA-XX_Cu	APF10	Cu



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WG Spacer(Shim)

2. WG Spacer - Double Ridge

Double Ridge WG Spacer - 1/4 Wavelength (Shim)



Double Ridge 1/4 Wavelength Spacer(Shim) is mostly used in WG calibration kits. This is also called an offset, or 1/4 Wavelength section. The shim is terminated by the short, fixed load, or the second test port of the analyzer.

EIA WRD	Frequency (GHz)	1/4 DRWSPA (Shim)	Flange	Mat.
		P/N		
WRD84	0.84-2.0	84DRWSPA14	FPWRD84D24	Al
WRD200	2.0-4.8	200DRWSPA14	FPWRD200D24	Al
WRD250	2.6-7.8	250DRWSPA14	FPWRD250D30	Al
WRD350	3.5-8.2	350DRWSPA14	FPWRD350D24	Al
WRD475	4.75-11.0	475DRWSPA14_Cu	FPWRD475D24	Cu
WRD580	5.8-16.0	580DRWSPA14_Cu	FPWRD580D28	Cu
WRD650	6.5-18.0	650DRWSPA14_Cu	FPWRD650D28	Cu
WRD750	7.5-18.0	750DRWSPA14_Cu	FPWRD750D24	Cu
WRD110	11.0-26.5	110DRWSPA14_Cu	FPWRD110C24	Cu
WRD180	18.0-40.0	180DRWSPA14_Cu	FPWRD180C24	Cu



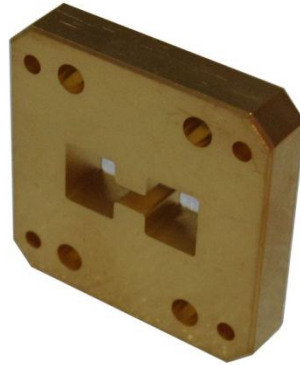
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WG Spacer(Shim)

Double Ridge Customized Spacer(Shim)



Double Ridge Customized Spacer(Shim) - MOQ:10pcs

A-INFO manufactures a wide variety of shims to bridge a gap between two pieces of WG.

Customized spacers(shims) are available.

EIA WRD	Frequency (GHz)	P/N	Flange	Mat.
WRD84	0.84-2.0	84DRWSPA-XX	FPWRD84D24	Al
WRD200	2.0-4.8	200DRWSPA-XX	FPWRD200D24	Al
WRD250	2.6-7.8	250DRWSPA-XX	FPWRD250D30	Al
WRD350	3.5-8.2	350DRWSPA-XX	FPWRD350D24	Al
WRD475	4.75-11.0	475DRWSPA-XX_Cu	FPWRD475D24	Cu
WRD580	5.8-16.0	580DRWSPA-XX_Cu	FPWRD580D28	Cu
WRD650	6.5-18.0	650DRWSPA-XX_Cu	FPWRD650D28	Cu
WRD750	7.5-18.0	750DRWSPA-XX_Cu	FPWRD750D24	Cu
WRD110	11.0-26.5	110DRWSPA-XX_Cu	FPWRD110C24	Cu
WRD180	18.0-40.0	180DRWSPA-XX_Cu	FPWRD180C24	Cu



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WG VNA Calibration Kits

WG VNA Calibration Kits

1. WG VNA Calibration Kits - CLKA1 Kits Series



284CLKA1-NRFEF_DP



90CLKA1-SRFEF_PB



34CLKA1-KRFEF_BP



28CLKA1-KRFEF_P0

Features

- 0.75 to 110GHz
- WR9 to Through WR10
- Fixed Load Calibration
- Support TRL and SSLT Calibration Method
- Ke si ht A ilent Anritsu and Rohde & Schwarz VNAs Su orted

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Flange Code, refer below model list table.



WG VNA Calibration Kits

Standard CLKA1 Series Waveguide Calibration Kits Model List

EIA WR	Freq. (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR975	0.75-1.12	-	975CLKA1-NRFRF_DP	-	N type Female	FDP9
		-	975CLKA1-SRFRF_DP	-	SMA Female	FDP9
WR770	0.96-1.45	-	770CLKA1-NRFRF_DP	-	N type Female	FDP12
		-	770CLKA1-SRFRF_DP	-	SMA Female	FDP12
WR650	1.12-1.7	-	650CLKA1-NRFRF_DP	-	N type Female	FDP14
		-	650CLKA1-SRFRF_DP	-	SMA Female	FDP14
WR510	1.45-2.2	-	510CLKA1-NRFRF_DP	-	N type Female	FDP18
		-	510CLKA1-SRFRF_DP	-	SMA Female	FDP18
WR430	1.7-2.6	430CLKA1-NRFEF_P0	-	430CLKA1-NEFEF_P0	N type Female	APF430
		430CLKA1-SRFEF_P0	-	430CLKA1-SEFEF_P0	SMA Female	APF430
WR340	2.2-3.3	340CLKA1-NRFEF_P0	-	340CLKA1-NEFEF_P0	N type Female	APF340
		340CLKA1-SRFEF_P0	-	340CLKA1-SEFEF_P0	SMA Female	APF340
WR284	2.6-3.95	284CLKA1-NRFEF_DP	-	284CLKA1-NEFEF_DP	N type Female	FDP32
		284CLKA1-SRFEF_DP	-	284CLKA1-SEFEF_DP	SMA Female	FDP32
		284CLKA1-NRFEF_AP	284CLKA1-NRFRF_AP	284CLKA1-NEFEF_AP	N type Female	FAP32
		284CLKA1-SRFEF_AP	284CLKA1-SRFRF_AP	284CLKA1-SEFEF_AP	SMA Female	FAP32
		284CLKA1-NRFEF_PB	284CLKA1-NRFRF_PB	284CLKA1-NEFEF_PB	N type Female	APF284B
		284CLKA1-SRFEF_PB	284CLKA1-SRFRF_PB	284CLKA1-SEFEF_PB	SMA Female	APF284B



WG VNA Calibration Kits

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR229	3.3-4.9	229CLKA1-SRFEF_DP	-	229CLKA1-SEFEF_DP	SMA Female	FDP40
		229CLKA1-NRFEF_DP	-	229CLKA1-NEFEF_DP	N type Female	FDP40
		229CLKA1-SRFEF_P0	-	229CLKA1-SEFEF_P0	SMA Female	APF229
		229CLKA1-NRFEF_P0	-	229CLKA1-NEFEF_P0	N type Female	APF229
WR187	3.95-5.85	187CLKA1-SRFEF_DP	187CLKA1-SRFRF_DP	187CLKA1-SEFEF_DP	SMA Female	FDP48
		-	187CLKA1-3.5RFRF_DP	-	3.5mm Female	FDP48
		187CLKA1-NRFEF_DP	187CLKA1-NRFRF_DP	187CLKA1-NEFEF_DP	N type Female	FDP48
		-	187CLKA1-7RFRF_DP	-	7mm	FDP48
		187CLKA1-SRFEF_AP	187CLKA1-SRFRF_AP	187CLKA1-SEFEF_AP	SMA Female	FAP48
		-	187CLKA1-3.5RFRF_AP	-	3.5mm Female	FAP48
		187CLKA1-NRFEF_AP	-	187CLKA1-NEFEF_AP	N type Female	FAP48
		187CLKA1-SRFEF_P0	187CLKA1-SRFRF_P0	187CLKA1-SEFEF_P0	SMA Female	APF187
		-	187CLKA1-3.5RFRF_P0	-	3.5mm Female	APF187
		187CLKA1-NRFEF_P0	-	187CLKA1-NEFEF_P0	N type Female	APF187
WR159	4.90-7.05	159CLKA1-SRFEF_DP	159CLKA1-SRFRF_DP	159CLKA1-SEFEF_DP	SMA Female	FDP58
		-	159CLKA1-3.5RFRF_DP	-	3.5mm Female	FDP58
		159CLKA1-NRFEF_DP	159CLKA1-NRFRF_DP	159CLKA1-NEFEF_DP	N type Female	FDP58
		-	159CLKA1-7RFRF_DP	-	7mm	FDP58
		159CLKA1-SRFEF_P0	159CLKA1-SRFRF_P0	159CLKA1-SEFEF_P0	SMA Female	APF159
		-	159CLKA1-3.5RFRF_P0	-	3.5mm Female	APF159
		159CLKA1-NRFEF_P0	159CLKA1-NRFRF_P0	159CLKA1-NEFEF_P0	N type Female	APF159
		-	159CLKA1-7RFRF_P0	-	7mm	APF159
WR137	5.85-8.20	137CLKA1-SRFEF_DP	137CLKA1-SRFRF_DP	137CLKA1-SEFEF_DP	SMA Female	FDP70
		-	137CLKA1-3.5RFRF_DP	-	3.5mm Female	FDP70
		137CLKA1-NRFEF_DP	137CLKA1-NRFRF_DP	137CLKA1-NEFEF_DP	N type Female	FDP70
		-	137CLKA1-7RFRF_DP	-	7mm	FDP70
		137CLKA1-SRFEF_AP	137CLKA1-SRFRF_AP	137CLKA1-SEFEF_AP	SMA Female	FAP70
		-	137CLKA1-3.5RFRF_AP	-	3.5mm Female	FAP70
		137CLKA1-NRFEF_AP	-	137CLKA1-NEFEF_AP	N type Female	FAP70
		137CLKA1-SRFEF_P0	137CLKA1-SRFRF_P0	137CLKA1-SEFEF_P0	SMA Female	APF137
WR112	7.05-10.0	-	137CLKA1-3.5RFRF_P0	-	3.5mm Female	APF137
		137CLKA1-NRFEF_P0	-	137CLKA1-NEFEF_P0	N type Female	APF137
		112CLKA1-SRFEF_PB	112CLKA1-SRFRF_PB	112CLKA1-SEFEF_PB	SMA Female	APF112B
		-	112CLKA1-3.5RFRF_PB	-	3.5mm Female	APF112B
		112CLKA1-NRFEF_PB	112CLKA1-NRFRF_PB	112CLKA1-NEFEF_PB	N type Female	APF112B
		-	112CLKA1-7RFRF_PB	-	7mm	APF112B
		112CLKA1-SRFEF_DP	112CLKA1-SRFRF_DP	112CLKA1-SEFEF_DP	SMA Female	FDP84
		-	112CLKA1-3.5RFRF_DP	-	3.5mm Female	FDP84
		112CLKA1-NRFEF_DP	-	112CLKA1-NEFEF_DP	N type Female	FDP84
		112CLKA1-SRFEF_P0	112CLKA1-SRFRF_P0	112CLKA1-SEFEF_P0	SMA Female	APF112
		-	112CLKA1-3.5RFRF_P0	-	3.5mm Female	APF112
		112CLKA1-NRFEF_P0	-	112CLKA1-NEFEF_P0	N type Female	APF112



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EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR90	8.2-12.4	90CLKA1-SRFEF_PB	90CLKA1-SRFRF_PB	90CLKA1-SEFEF_PB	SMA Female	APF90B
		-	90CLKA1-3.5RFRF_PB	-	3.5mm Female	APF90B
		90CLKA1-NRFEF_PB	90CLKA1-NRFRF_PB	90CLKA1-NEFEF_PB	N type Female	APF90B
		-	90CLKA1-7RFRF_PB	-	7mm	APF90B
		90CLKA1-SRFEF_DP	-	90CLKA1-SEFEF_DP	SMA Female	FDP100
		90CLKA1-NRFEF_DP	-	90CLKA1-NEFEF_DP	N type Female	FDP100
		90CLKA1-SRFEF_P0	-	90CLKA1-SEFEF_P0	SMA Female	APF90
		90CLKA1-NRFEF_P0	-	90CLKA1-NEFEF_P0	N type Female	APF90
		90CLKA1-SRFEF_PA	-	90CLKA1-SEFEF_PA	SMA Female	APF90A
		90CLKA1-NRFEF_PA	-	90CLKA1-NEFEF_PA	N type Female	APF90A
WR75	10.0-15.0	75CLKA1-SRFEF_PB	75CLKA1-SRFRF_PB	75CLKA1-SEFEF_PB	SMA Female	APF75B
		-	75CLKA1-3.5RFRF_PB	-	3.5mm Female	APF75B
		75CLKA1-NRFEF_PB	75CLKA1-NRFRF_PB	75CLKA1-NEFEF_PB	N type Female	APF75B
		-	75CLKA1-7RFRF_PB	-	7mm	APF75B
		75CLKA1-SRFEF_DP	-	75CLKA1-SEFEF_DP	SMA Female	FDP120
WR62	12.4-18.0	62CLKA1-SRFEF_P0	62CLKA1-SRFRF_P0	62CLKA1-SEFEF_P0	SMA Female	APF62
		-	62CLKA1-3.5RFRF_P0	-	3.5mm Female	APF62
		62CLKA1-NRFEF_P0	62CLKA1-NRFRF_P0	62CLKA1-NEFEF_P0	N type Female	APF62
		-	62CLKA1-7RFRF_P0	-	7mm	APF62
		62CLKA1-SRFEF_DP	-	62CLKA1-SEFEF_DP	SMA Female	FDP140
WR51	15.0-22.0	51CLKA1-SRFEF_PC	51CLKA1-SRFRF_PC	51CLKA1-SEFEF_PC	SMA Female	APF51C
		51CLKA1-SRFEF_PA	51CLKA1-SRFRF_PA	51CLKA1-SEFEF_PA	SMA Female	APF51A
		51CLKA1-SRFEF_PB	51CLKA1-SRFRF_PB	51CLKA1-SEFEF_PB	SMA Female	APF51B
		51CLKA1-SRFEF_DP	-	51CLKA1-SEFEF_DP	SMA Female	FDP180
WR42	18.0-26.5	42CLKA1-SRFEF_P0	42CLKA1-SRFRF_P0	42CLKA1-SEFEF_P0	SMA Female	APF42
		42CLKA1-KRFEF_P0	42CLKA1-KRFRF_P0	42CLKA1-KEFEF_P0	2.92mm Female	APF42
		-	42CLKA1-3.5RFRF_P0	-	3.5mm Female	APF42
WR34	22.0-33.0	34CLKA1-KRFEF_BP	34CLKA1-KRFRF_BP	34CLKA1-KEFEF_BP	2.92mm Female	FBP260
		34CLKA1-KRFEF_P0	34CLKA1-KRFRF_P0	34CLKA1-KEFEF_P0	2.92mm Female	APF34
WR28	26.5-40.0	28CLKA1-KRFEF_P0	28CLKA1-KRFRF_P0	28CLKA1-KEFEF_P0	2.92mm Female	APF28
		28CLKA1-2.4RFEF_P0	28CLKA1-2.4RFRF_P0	28CLKA1-2.4EFEF_P0	2.4mm Female	APF28
		28CLKA1-1_P0	-	-	-	APF28



WG VNA Calibration Kits

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR22	33.0-50.0	22CLKA1-2.4RFEF_UP		22CLKA1-2.4EFEF_UP	2.4mm Female	FUGP400
		22CLKA1-2.4RFEF_P0	22CLKA1-2.4RFRF_P0-	22CLKA1-2.4EFEF_P0	2.4mm Female	APF22
		22CLKA1-1_P0	-	-	-	APF22
WR19	40.0-50.0	19CLKA1-2.4RFEF_UP	-	19CLKA1-2.4EFEF_UP	2.4mm Female	FUGP500
	40.0-60.0	19CLKA1-1.85RFEF_UP		19CLKA1-1.85EFEF_UP	1.85mm Female	FUGP500
	40.0-60.0	19CLKA1-1_UP	-	-	-	FUGP500
	40.0-50.0	19CLKA1-2.4RFEF_P0	19CLKA1-2.4RFRF_P0	19CLKA1-2.4EFEF_P0	2.4mm Female	APF19
	40.0-60.0	19CLKA1-1.85RFEF_P0	19CLKA1-1.85RFRF_P0	19CLKA1-1.85EFEF_P0	1.85mm Female	APF19
	40.0-60.0	19CLKA1-1_P0	-	-	-	APF19
WR15	50.0-65.0	15CLKA1-1.85RFEF_UP		15CLKA1-1.85EFEF_UP	1.85mm Female	FUGP620
	50.0-75.0	15CLKA1-1_UP	-	-	-	FUGP620
	50.0-65.0	15CLKA1-1.85RFEF_P0	15CLKA1-1.85RFRF_P0	15CLKA1-1.85EFEF_P0	1.85mm Female	APF15
	50.0-75.0	15CLKA1-1_P0	-	-	-	APF15
WR12	60.0-90.0	12CLKA1-0_UP	-	-	-	FUGP740
		12CLKA1-1_UP	-	-	-	FUGP740
		12CLKA1-0_P0	-	-	-	APF12
		12CLKA1-1_P0	-	-	-	APF12
WR10	75.0-110.0	10CLKA1-0_UP	-	-	-	FUGP900
		10CLKA1-1_UP	-	-	-	FUGP900
		10CLKA1-0_P0	-	-	-	APF10
		10CLKA1-1_P0	-	-	-	APF10
WR51	15.0-22.0	51CLKA1-SRFEF_PC	51CLKA1-SRFRF_PC	51CLKA1-SEFEF_PC	SMA Female	APF51C
		51CLKA1-SRFEF_PA	51CLKA1-SRFRF_PA	51CLKA1-SEFEF_PA	SMA Female	APF51A
		51CLKA1-SRFEF_PB	51CLKA1-SRFRF_PB	51CLKA1-SEFEF_PB	SMA Female	APF51B
		51CLKA1-SRFEF_DP	-	51CLKA1-SEFEF_DP	SMA Female	FDP180
WR42	18.0-26.5	42CLKA1-SRFEF_P0	42CLKA1-SRFRF_P0	42CLKA1-SEFEF_P0	SMA Female	APF42
		42CLKA1-KRFEF_P0	42CLKA1-KRFRF_P0	42CLKA1-KEFEF_P0	2.92mm Female	APF42
		-	42CLKA1-3.5RFRF_P0	-	3.5mm Female	APF42
WR34	22.0-33.0	34CLKA1-KRFEF_BP	34CLKA1-KRFRF_BP	34CLKA1-KEFEF_BP	2.92mm Female	FBP260
		34CLKA1-KRFEF_P0	34CLKA1-KRFRF_P0	34CLKA1-KEFEF_P0	2.92mm Female	APF34
WR28	26.5-40.0	28CLKA1-KRFEF_P0	28CLKA1-KRFRF_P0	28CLKA1-KEFEF_P0	2.92mm Female	APF28
		28CLKA1-2.4RFEF_P0	28CLKA1-2.4RFRF_P0	28CLKA1-2.4EFEF_P0	2.4mm Female	APF28
		28CLKA1-1_P0	-	-	-	APF28
WR22	33.0-50.0	22CLKA1-2.4RFEF_UP		22CLKA1-2.4EFEF_UP	2.4mm Female	FUGP400
		22CLKA1-2.4RFEF_P0	22CLKA1-2.4RFRF_P0-	22CLKA1-2.4EFEF_P0	2.4mm Female	APF22
		22CLKA1-1_P0	-	-	-	APF22
WR19	40.0-50.0	19CLKA1-2.4RFEF_UP	-	19CLKA1-2.4EFEF_UP	2.4mm Female	FUGP500
	40.0-60.0	19CLKA1-1.85RFEF_UP		19CLKA1-1.85EFEF_UP	1.85mm Female	FUGP500
	40.0-60.0	19CLKA1-1_UP	-	-	-	FUGP500
	40.0-50.0	19CLKA1-2.4RFEF_P0	19CLKA1-2.4RFRF_P0	19CLKA1-2.4EFEF_P0	2.4mm Female	APF19
	40.0-60.0	19CLKA1-1.85RFEF_P0	19CLKA1-1.85RFRF_P0	19CLKA1-1.85EFEF_P0	1.85mm Female	APF19
	40.0-60.0	19CLKA1-1_P0	-	-	-	APF19



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EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR15	50.0-65.0	15CLKA1-1.85RFEF_UP		15CLKA1-1.85EFEF_UP	1.85mm Female	FUGP620
	50.0-75.0	15CLKA1-1_UP	-	-	-	FUGP620
	50.0-65.0	15CLKA1-1.85RFEF_P0	15CLKA1-1.85RFRF_P0	15CLKA1-1.85EFEF_P0	1.85mm Female	APF15
	50.0-75.0	15CLKA1-1_P0	-	-	-	APF15
WR12	60.0-90.0	12CLKA1-0_UP	-	-	-	FUGP740
		12CLKA1-1_UP	-	-	-	FUGP740
		12CLKA1-0_P0	-	-	-	APF12
		12CLKA1-1_P0	-	-	-	APF12
WR10	75.0-110.0	10CLKA1-0_UP	-	-	-	FUGP900
		10CLKA1-1_UP	-	-	-	FUGP900
		10CLKA1-0_P0	-	-	-	APF10
		10CLKA1-1_P0	-	-	-	APF10
WR75	10.0-15.0	75CLKA1-SRFEF_PB	75CLKA1-SRFRF_PB	75CLKA1-SEFEF_PB	SMA Female	APF75B
		-	75CLKA1-3.5RFRF_PB	-	3.5mm Female	APF75B
		75CLKA1-NRFEF_PB	75CLKA1-NRFRF_PB	75CLKA1-NEFEF_PB	N type Female	APF75B
		-	75CLKA1-7RFRF_PB	-	7mm	APF75B
		75CLKA1-SRFEF_DP	-	75CLKA1-SEFEF_DP	SMA Female	FDP120
		75CLKA1-NRFEF_DP	-	75CLKA1-NEFEF_DP	N type Female	FDP120
WR62	12.4-18.0	62CLKA1-SRFEF_P0	62CLKA1-SRFRF_P0	62CLKA1-SEFEF_P0	SMA Female	APF62
		-	62CLKA1-3.5RFRF_P0	-	3.5mm Female	APF62
		62CLKA1-NRFEF_P0	62CLKA1-NRFRF_P0	62CLKA1-NEFEF_P0	N type Female	APF62
		-	62CLKA1-7RFRF_P0	-	7mm	APF62
		62CLKA1-SRFEF_DP	-	62CLKA1-SEFEF_DP	SMA Female	FDP140
		62CLKA1-NRFEF_DP	-	62CLKA1-NEFEF_DP	N type Female	FDP140
WR51	15.0-22.0	51CLKA1-SRFEF_PC	51CLKA1-SRFRF_PC	51CLKA1-SEFEF_PC	SMA Female	APF51C
		51CLKA1-SRFEF_PA	51CLKA1-SRFRF_PA	51CLKA1-SEFEF_PA	SMA Female	APF51A
		51CLKA1-SRFEF_PB	51CLKA1-SRFRF_PB	51CLKA1-SEFEF_PB	SMA Female	APF51B
		51CLKA1-SRFEF_DP	-	51CLKA1-SEFEF_DP	SMA Female	FDP180
WR42	18.0-26.5	42CLKA1-SRFEF_P0	42CLKA1-SRFRF_P0	42CLKA1-SEFEF_P0	SMA Female	APF42
		42CLKA1-KRFEF_P0	42CLKA1-KRFRF_P0	42CLKA1-KEFEF_P0	2.92mm Female	APF42
		-	42CLKA1-3.5RFRF_P0	-	3.5mm Female	APF42
WR34	22.0-33.0	34CLKA1-KRFEF_BP	34CLKA1-KRFRF_BP	34CLKA1-KEFEF_BP	2.92mm Female	FBP260
		34CLKA1-KRFEF_P0	34CLKA1-KRFRF_P0	34CLKA1-KEFEF_P0	2.92mm Female	APF34
WR28	26.5-40.0	28CLKA1-KRFEF_P0	28CLKA1-KRFRF_P0	28CLKA1-KEFEF_P0	2.92mm Female	APF28
		28CLKA1-2.4RFEF_P0	28CLKA1-2.4RFRF_P0	28CLKA1-2.4EFEF_P0	2.4mm Female	APF28
		28CLKA1-1_P0	-	-	-	APF28
WR22	33.0-50.0	22CLKA1-2.4RFEF_UP		22CLKA1-2.4EFEF_UP	2.4mm Female	FUGP400
		22CLKA1-2.4RFEF_P0	22CLKA1-2.4RFRF_P0	22CLKA1-2.4EFEF_P0	2.4mm Female	APF22
		22CLKA1-1_P0	-	-	-	APF22



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WG VNA Calibration Kits

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR19	40.0-50.0	19CLKA1-2.4RFEF_UP	-	19CLKA1-2.4EFEF_UP	2.4mm Female	FUGP500
	40.0-60.0	19CLKA1-1.85RFEF_UP		19CLKA1-1.85EFEF_UP	1.85mm Female	FUGP500
	40.0-60.0	19CLKA1-1_UP	-	-	-	FUGP500
	40.0-50.0	19CLKA1-2.4RFEF_P0	19CLKA1-2.4RFRF_P0	19CLKA1-2.4EFEF_P0	2.4mm Female	APF19
	40.0-60.0	19CLKA1-1.85RFEF_P0	19CLKA1-1.85RFRF_P0	19CLKA1-1.85EFEF_P0	1.85mm Female	APF19
	40.0-60.0	19CLKA1-1_P0	-	-	-	APF19
WR15	50.0-65.0	15CLKA1-1.85RFEF_UP		15CLKA1-1.85EFEF_UP	1.85mm Female	FUGP620
	50.0-75.0	15CLKA1-1_UP	-	-	-	FUGP620
	50.0-65.0	15CLKA1-1.85RFEF_P0	15CLKA1-1.85RFRF_P0	15CLKA1-1.85EFEF_P0	1.85mm Female	APF15
	50.0-75.0	15CLKA1-1_P0	-	-	-	APF15
WR12	60.0-90.0	12CLKA1-0_UP	-	-	-	FUGP740
		12CLKA1-1_UP	-	-	-	FUGP740
		12CLKA1-0_P0	-	-	-	APF12
		12CLKA1-1_P0	-	-	-	APF12
WR10	75.0-110.0	10CLKA1-0_UP	-	-	-	FUGP900
		10CLKA1-1_UP	-	-	-	FUGP900
		10CLKA1-0_P0	-	-	-	APF10
		10CLKA1-1_P0	-	-	-	APF10

Flange Description

Below flanges are available for WG Calibration Kits

- Standard Flange
- Precision Flange (APF)

The AINFO Precision Flanges(APF) on these components have precision indexing holes and indexing pins for precise mating alignment that maximizes measurement repeatability. They conform to all EIA WR standards for rectangular or round waveguide flanges.



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WG VNA Calibration Kits

2. WG VNA Calibration Kits - CLKA2 Kits Series



284CLKA2-NRFRF_P0



90CLKA2-SRFRF_PB



42CLKA2-SRFRF_P0



28CLKA2-KRFRF_P0

Features

- Two Precision Fixed Loads
- 0.75 to 110GHz
- WR975 Through WR10
- Fixed Load Calibration
- Support TRL and SSLT Calibration Method
- Keysight (Agilent), Anritsu and Rohde & Schwarz VNAs Supported

Description

The A-INFO CLKA2 Series Calibration Kits are waveguide kits designed to provide accurate TRL(Thru-Reflect-Line) calibration of VNA for measurement in rectangular waveguide from WR975 to WR10 (0.75 to 110GHz). CLKA2 Series Calibration Kits provide all the necessary components for an accurate TRL calibration. In addition to TRL calibration, CLKA2 Series can also make SSLT(Short-Short-Load-Thru) and offset load calibration. All kit components have both standard flange and precision flange(APF Series).



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WG VNA Calibration Kits

Components included in CLKA2 Series Waveguide Calibration Kits

QTY	Description	Notes
2	WG to Coaxial Adapter	Refer below table for each WG band.
2	Precision fixed termination	Two terminations for CLKA2 series.
1	1/4-λ Spacer (shim)	-
1	Fixed (reference plane) Short	-
1	Verification Standard	Optional, not included in standard Model.
1~3	Screw Pack	Qty is depending on WG band.
1	Dowel Pack	For APF flange only.
1	Hex Ball Driver	-
1	Calibration Software	Optional, not included in standard Model.
1	Carrying Case	-

Notes:

Indexing refer Precision Flange (APF)

Calibration Software currently supports Keysight 872x Series, PNA Series, Anritsu and Rohde&Schwarz ZVx Series. Please ask A-INFO for more information when place order.

Verification Standard is suggested used for WR28, WR22, WR19, WR15, WR12, WR10 Calibration Kit.

Model Information

Example Part Number: 430 CLKA2 -XABAB _DP

Waveguide Size: WR975 to WR10

Product Code, CLKA2 Series WG Calibration Kits

Test Port Adapter Connector Option:

X: Connector type, S for SMA; N for N type; 3.5 for 3.5mm, K for 2.92mm, 2.4 for 2.4mm, 1.85 for 1.85mm.

A: Type for WG to coaxial adapter, R for Right Angle, E for Endlunch.

B: Gender for each adapter, F for female, M for Male.

For Example: -SRFEF, S means the connector type of WG to coaxial adapters in Calibration Kits is SMA. RF means one adapter is Right Angle with Female connector, EF means another one is Endlaunch with Female connector.

Order Kits with no Adapter Option: use -0, For example 90CLKA1-0_PB (Note: Each model listed below can offer "-0" option)

Order Kits with Two WG/WG Test Port Adapters Option: use -1 (Note: No WG to Coaxial Adapter in "-1" option)

Flange Code, refer below model list table.



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WG VNA Calibration Kits

Standard CLKA2 Series Waveguide Calibration Kits Model List

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR975	0.75-1.12	-	975CLKA2-NRFRF_DP	-	N type Female	FDP9
		-	975CLKA2-SRFRF_DP	-	SMA Female	FDP9
WR770	0.96-1.45	-	770CLKA2-NRFRF_DP	-	N type Female	FDP12
		-	770CLKA2-SRFRF_DP	-	SMA Female	FDP12
WR650	1.12-1.7	-	650CLKA2-NRFRF_DP	-	N type Female	FDP14
		-	650CLKA2-SRFRF_DP	-	SMA Female	FDP14
WR510	1.45-2.2	-	510CLKA2-NRFRF_DP	-	N type Female	FDP18
		-	510CLKA2-SRFRF_DP	-	SMA Female	FDP18
WR430	1.7-2.6	430CLKA2-NRFEF_P0	-	430CLKA2-NEFEF_P0	N type Female	APF430
		430CLKA2-SRFEF_P0	-	430CLKA2-SEFEF_P0	SMA Female	APF430
WR340	2.2-3.3	340CLKA2-NRFEF_P0	-	340CLKA2-NEFEF_P0	N type Female	APF340
		340CLKA2-SRFEF_P0	-	340CLKA2-SEFEF_P0	SMA Female	APF340
WR284	2.6-3.95	284CLKA2-NRFEF_DP	-	284CLKA2-NEFEF_DP	N type Female	FDP32
		284CLKA2-SRFEF_DP	-	284CLKA2-SEFEF_DP	SMA Female	FDP32
		284CLKA2-NRFEF_AP	284CLKA2-NRFRF_AP	284CLKA2-NEFEF_AP	N type Female	FAP32
		284CLKA2-SRFEF_AP	284CLKA2-SRFRF_AP	284CLKA2-SEFEF_AP	SMA Female	FAP32
		284CLKA2-NRFEF_PB	284CLKA2-NRFRF_PB	284CLKA2-NEFEF_PB	N type Female	APF284B
		284CLKA2-SRFEF_PB	284CLKA2-SRFRF_PB	284CLKA2-SEFEF_PB	SMA Female	APF284B
WR229	3.3-4.9	229CLKA2-SRFEF_DP	-	229CLKA2-SEFEF_DP	SMA Female	FDP40
		229CLKA2-NRFEF_DP	-	229CLKA2-NEFEF_DP	N type Female	FDP40
		229CLKA2-SRFEF_P0	-	229CLKA2-SEFEF_P0	SMA Female	APF229
		229CLKA2-NRFEF_P0	-	229CLKA2-NEFEF_P0	N type Female	APF229



WG VNA Calibration Kits

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR187	3.95-5.85	187CLKA2-SRFEF_DP	187CLKA2-SRFRF_DP	187CLKA2-SEFEF_DP	SMA Female	FDP48
		-	187CLKA2-3.5RFRF_DP	-	3.5mm Female	FDP48
		187CLKA2-NRFEF_DP	187CLKA2-NRFRF_DP	187CLKA2-NEFEF_DP	N type Female	FDP48
		-	187CLKA2-7RFRF_DP	-	7mm	FDP48
		187CLKA2-SRFEF_AP	187CLKA2-SRFRF_AP	187CLKA2-SEFEF_AP	SMA Female	FAP48
		-	187CLKA2-3.5RFRF_AP	-	3.5mm Female	FAP48
		187CLKA2-NRFEF_AP	-	187CLKA2-NEFEF_AP	N type Female	FAP48
		187CLKA2-SRFEF_P0	187CLKA2-SRFRF_P0	187CLKA2-SEFEF_P0	SMA Female	APF187
		-	187CLKA2-3.5RFRF_P0	-	3.5mm Female	APF187
WR159	4.90-7.05	187CLKA2-NRFEF_P0	-	187CLKA2-NEFEF_P0	N type Female	APF187
		159CLKA2-SRFEF_DP	159CLKA2-SRFRF_DP	159CLKA2-SEFEF_DP	SMA Female	FDP58
		-	159CLKA2-3.5RFRF_DP	-	3.5mm Female	FDP58
		159CLKA2-NRFEF_DP	159CLKA2-NRFRF_DP	159CLKA2-NEFEF_DP	N type Female	FDP58
		-	159CLKA2-7RFRF_DP	-	7mm	FDP58
		159CLKA2-SRFEF_P0	159CLKA2-SRFRF_P0	159CLKA2-SEFEF_P0	SMA Female	APF159
		-	159CLKA2-3.5RFRF_P0	-	3.5mm Female	APF159
		159CLKA2-NRFEF_P0	159CLKA2-NRFRF_P0	159CLKA2-NEFEF_P0	N type Female	APF159
		-	159CLKA2-7RFRF_P0	-	7mm	APF159
WR137	5.85-8.20	137CLKA2-SRFEF_DP	137CLKA2-SRFRF_DP	137CLKA2-SEFEF_DP	SMA Female	FDP70
		-	137CLKA2-3.5RFRF_DP	-	3.5mm Female	FDP70
		137CLKA2-NRFEF_DP	137CLKA2-NRFRF_DP	137CLKA2-NEFEF_DP	N type Female	FDP70
		-	137CLKA2-7RFRF_DP	-	7mm	FDP70
		137CLKA2-SRFEF_AP	137CLKA2-SRFRF_AP	137CLKA2-SEFEF_AP	SMA Female	FAP70
		-	137CLKA2-3.5RFRF_AP	-	3.5mm Female	FAP70
		137CLKA2-NRFEF_AP	-	137CLKA2-NEFEF_AP	N type Female	FAP70
		137CLKA2-SRFEF_P0	137CLKA2-SRFRF_P0	137CLKA2-SEFEF_P0	SMA Female	APF137
		-	137CLKA2-3.5RFRF_P0	-	3.5mm Female	APF137
WR112	7.05-10.0	137CLKA2-NRFEF_P0	-	137CLKA2-NEFEF_P0	N type Female	APF137
		112CLKA2-SRFEF_PB	112CLKA2-SRFRF_PB	112CLKA2-SEFEF_PB	SMA Female	APF112B
		-	112CLKA2-3.5RFRF_PB	-	3.5mm Female	APF112B
		112CLKA2-NRFEF_PB	112CLKA2-NRFRF_PB	112CLKA2-NEFEF_PB	N type Female	APF112B
		-	112CLKA2-7RFRF_PB	-	7mm	APF112B
		112CLKA2-SRFEF_DP	112CLKA2-SRFRF_DP	112CLKA2-SEFEF_DP	SMA Female	FDP84
		-	112CLKA2-3.5RFRF_DP	-	3.5mm Female	FDP84
		112CLKA2-NRFEF_DP	-	112CLKA2-NEFEF_DP	N type Female	FDP84
		112CLKA2-SRFEF_P0	112CLKA2-SRFRF_P0	112CLKA2-SEFEF_P0	SMA Female	APF112
		-	112CLKA2-3.5RFRF_P0	-	3.5mm Female	APF112
		112CLKA2-NRFEF_P0	-	112CLKA2-NEFEF_P0	N type Female	APF112



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WG VNA Calibration Kits

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR90	8.2-12.4	90CLKA2-SRFEF_PB	90CLKA2-SRFRF_PB	90CLKA2-SEFEF_PB	SMA Female	APF90B
		-	90CLKA2-3.5RFRF_PB	-	3.5mm Female	APF90B
		90CLKA2-NRFEF_PB	90CLKA2-NRFRF_PB	90CLKA2-NEFEF_PB	N type Female	APF90B
		-	90CLKA2-7RFRF_PB	-	7mm	APF90B
		90CLKA2-SRFEF_DP	-	90CLKA2-SEFEF_DP	SMA Female	FDP100
		90CLKA2-NRFEF_DP	-	90CLKA2-NEFEF_DP	N type Female	FDP100
		90CLKA2-SRFEF_P0	-	90CLKA2-SEFEF_P0	SMA Female	APF90
		90CLKA2-NRFEF_P0	-	90CLKA2-NEFEF_P0	N type Female	APF90
		90CLKA2-SRFEF_PA	-	90CLKA2-SEFEF_PA	SMA Female	APF90A
		90CLKA2-NRFEF_PA	-	90CLKA2-NEFEF_PA	N type Female	APF90A
WR75	10.0-15.0	75CLKA2-SRFEF_PB	75CLKA2-SRFRF_PB	75CLKA2-SEFEF_PB	SMA Female	APF75B
		-	75CLKA2-3.5RFRF_PB	-	3.5mm Female	APF75B
		75CLKA2-NRFEF_PB	75CLKA2-NRFRF_PB	75CLKA2-NEFEF_PB	N type Female	APF75B
		-	75CLKA2-7RFRF_PB	-	7mm	APF75B
		75CLKA2-SRFEF_DP	-	75CLKA2-SEFEF_DP	SMA Female	FDP120
		75CLKA2-NRFEF_DP	-	75CLKA2-NEFEF_DP	N type Female	FDP120
WR62	12.4-18.0	62CLKA2-SRFEF_P0	62CLKA2-SRFRF_P0	62CLKA2-SEFEF_P0	SMA Female	APF62
		-	62CLKA2-3.5RFRF_P0	-	3.5mm Female	APF62
		62CLKA2-NRFEF_P0	62CLKA2-NRFRF_P0	62CLKA2-NEFEF_P0	N type Female	APF62
		-	62CLKA2-7RFRF_P0	-	7mm	APF62
		62CLKA2-SRFEF_DP	-	62CLKA2-SEFEF_DP	SMA Female	FDP140
		62CLKA2-NRFEF_DP	-	62CLKA2-NEFEF_DP	N type Female	FDP140
WR51	15.0-22.0	51CLKA2-SRFEF_PC	51CLKA2-SRFRF_PC	51CLKA2-SEFEF_PC	SMA Female	APF51C
		51CLKA2-SRFEF_PA	51CLKA2-SRFRF_PA	51CLKA2-SEFEF_PA	SMA Female	APF51A
		51CLKA2-SRFEF_PB	51CLKA2-SRFRF_PB	51CLKA2-SEFEF_PB	SMA Female	APF51B
		51CLKA2-SRFEF_DP	-	51CLKA2-SEFEF_DP	SMA Female	FDP180
WR42	18.0-26.5	42CLKA2-SRFEF_P0	42CLKA2-SRFRF_P0	42CLKA2-SEFEF_P0	SMA Female	APF42
		42CLKA2-KRFEF_P0	42CLKA2-KRFRF_P0	42CLKA2-KEFEF_P0	2.92mm Female	APF42
		-	42CLKA2-3.5RFRF_P0	-	3.5mm Female	APF42
WR34	22.0-33.0	34CLKA2-KRFEF_BP	34CLKA2-KRFRF_BP	34CLKA2-KEFEF_BP	2.92mm Female	FBP260
		34CLKA2-KRFEF_P0	34CLKA2-KRFRF_P0	34CLKA2-KEFEF_P0	2.92mm Female	APF34
WR28	26.5-40.0	28CLKA2-KRFEF_P0	28CLKA2-KRFRF_P0	28CLKA2-KEFEF_P0	2.92mm Female	APF28
		28CLKA2-2.4RFEF_P0	28CLKA2-2.4RFRF_P0	28CLKA2-2.4EFEF_P0	2.4mm Female	APF28
		28CLKA2-1_P0	-	-	-	APF28
WR22	33.0-50.0	22CLKA2-2.4RFEF_UP	-	22CLKA2-2.4EFEF_UP	2.4mm Female	FUGP400
		22CLKA2-2.4RFEF_P0	22CLKA2-2.4RFRF_P0	22CLKA2-2.4EFEF_P0	2.4mm Female	APF22
		22CLKA2-1_P0	-	-	-	APF22
WR19	40.0-50.0	19CLKA2-2.4RFEF_UP	-	19CLKA2-2.4EFEF_UP	2.4mm Female	FUGP500
	40.0-60.0	19CLKA2-1.85RFEF_UP	-	19CLKA2-1.85EFEF_UP	1.85mm Female	FUGP500
	40.0-60.0	19CLKA2-1_UP	-	-	-	FUGP500
	40.0-50.0	19CLKA2-2.4RFEF_P0	19CLKA2-2.4RFRF_P0	19CLKA2-2.4EFEF_UP	2.4mm Female	APF19
	40.0-60.0	19CLKA2-1.85RFEF_P0	19CLKA2-1.85RFRF_P0	19CLKA2-1.85EFEF_P0	1.85mm Female	APF19
	40.0-60.0	19CLKA2-1_P0	-	-	-	APF19



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WG VNA Calibration Kits

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR15	50.0-65.0	15CLKA2-1.85RFEF_UP	-	15CLKA2-1.85EFEF_UP	1.85mm Female	FUGP620
	50.0-75.0	15CLKA2-1_UP	-	-	-	FUGP620
	50.0-65.0	15CLKA2-1.85RFEF_P0	15CLKA2-1.85RFRF_P0	15CLKA2-1.85EFEF_P0	1.85mm Female	APF15
	50.0-75.0	15CLKA2-1_P0	-	-	-	APF15
WR12	60.0-90.0	12CLKA2-0_UP	-	-	-	FUGP740
		12CLKA2-1_UP	-	-	-	FUGP740
		12CLKA2-0_P0	-	-	-	APF12
		12CLKA2-1_P0	-	-	-	APF12
WR10	75.0-110.0	10CLKA2-0_UP	-	-	-	FUGP900
		10CLKA2-1_UP	-	-	-	FUGP900
		10CLKA2-0_P0	-	-	-	APF10
		10CLKA2-1_P0	-	-	-	APF10

Flange Description

Below flanges are available for WG Calibration Kits

- Standard Flange
- Precision Flange (APF)

The AINFO Precision Flanges(APF) on these components have precision indexing holes and indexing pins for precise mating alignment that maximizes measurement repeatability. They conform to all EIA WR standards for rectangular or round waveguide flanges.



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WG VNA Calibration Kits

3. WG VNA Calibration Kits - CLKA5 Kits Series



28CLKA5-KRFRF_P0

Features

- 1.7 to 40GHz
- WR430 Through WR28
- Sliding Load Calibration
- Support SSLT and SSL Calibration Method
- Keysight (Agilent), Anritsu and Rohde & Schwarz VNAs Supported

Description

The A-INFO CLKA5 Series Calibration Kits are waveguide kits designed to provide accurate SSLT(Short-Short-Load-Thru) calibration of VNA for measurement in rectangular waveguide from WR430 to WR28 (1.7 to 40GHz). CLKA5 Series Calibration Kits provide all the necessary components for an accurate SSLT calibration. In addition to SSLT calibration, CLKA5 Series can also make one-port SSL(Short-Short-Load) calibrations. All kit components have both standard flange and precision flange(APF Series).

WG VNA Calibration Kits

Components included in CLKA5 Series Waveguide Calibration Kits

QTY	Description	Notes
2	WG to Coaxial Adapter	Refer below table for each WG band.
1	Precision Sliding Termination	-
1	1/4- λ Spacer (shim)	-
1	Fixed (reference plane) Short	-
1	Verification Standard	Optional, not included in standard Model.
1~3	Screw Pack	Qty is depending on WG band.
1	Dowel Pack	For APF flange only.
1	Hex Ball Driver	-
1	Calibration Software	Optional, not included in standard Model.
1	Carrying Case	-

Notes:

Indexing refer Precision Flange (APF)

Calibration Software currently supports Keysight 872x Series, PNA Series, Anritsu and Rohde&Schwarz ZVx Series. Please ask A-INFO for more information when place order.

Verification Standard is suggested used for WR28 Calibration Kit.

Model Information

Example Part Number: 284 CLKA5 -XABAB _DP

Waveguide Size: WR430 to WR28

Product Code, CLKA5 Series WG Calibration Kits

Test Port Adapter Connector Option:

X: Connector type, S for SMA; N for N type; 3.5 for 3.5mm, K for 2.92mm, 2.4 for 2.4mm, 1.85 for 1.85mm.

A: Type for WG to coaxial adapter, R for Right Angle, E for Endlunch.

B: Gender for each adapter, F for female, M for Male.

For Example: -SRFEF, S means the connector type of WG to coaxial adapters in Calibration Kits is SMA. RF means one adapter is Right Angle with Female connector, EF means another one is Endlaunch with Female connector.

Order Kits with no Adapter Option: use -0, For example 90CLKA5-0_PB

(Note: Each model listed below can offer "-0" option)

Order Kits with Two WG/WG Test Port Adapters Option: use -1

(Note: No WG to Coaxial Adapter in "-1" option)

Flange Code, refer below model list table.



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WG VNA Calibration Kits

Standard CLKA5 Series Waveguide Calibration Kits Model List

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR430	1.7-2.6	430CLKA5-NRFEF_P0	-	430CLKA5-NEFEF_P0	N type Female	APF430
		430CLKA5-SRFEF_P0	-	430CLKA5-SEFEF_P0	SMA Female	APF430
WR340	2.2-3.3	340CLKA5-NRFEF_P0	-	340CLKA5-NEFEF_P0	N type Female	APF340
		340CLKA5-SRFEF_P0	-	340CLKA5-SEFEF_P0	SMA Female	APF340
WR284	2.6-3.95	284CLKA5-NRFEF_DP	-	284CLKA5-NEFEF_DP	N type Female	FDP32
		284CLKA5-SRFEF_DP	-	284CLKA5-SEFEF_DP	SMA Female	FDP32
		284CLKA5-NRFEF_AP	284CLKA5-NRFRF_AP	284CLKA5-NEFEF_AP	N type Female	FAP32
		284CLKA5-SRFEF_AP	284CLKA5-SRFRF_AP	284CLKA5-SEFEF_AP	SMA Female	FAP32
		284CLKA5-NRFEF_PB	284CLKA5-NRFRF_PB	284CLKA5-NEFEF_PB	N type Female	APF284B
		284CLKA5-SRFEF_PB	284CLKA5-SRFRF_PB	284CLKA5-SEFEF_PB	SMA Female	APF284B
WR229	3.3-4.9	229CLKA5-SRFEF_DP	-	229CLKA5-SEFEF_DP	SMA Female	FDP40
		229CLKA5-NRFEF_DP	-	229CLKA5-NEFEF_DP	N type Female	FDP40
		229CLKA5-SRFEF_P0	-	229CLKA5-SEFEF_P0	SMA Female	APF229
		229CLKA5-NRFEF_P0	-	229CLKA5-NEFEF_P0	N type Female	APF229
WR187	3.95-5.85	187CLKA5-SRFEF_DP	187CLKA5-SRFRF_DP	187CLKA5-SEFEF_DP	SMA Female	FDP48
		-	187CLKA5-3.5RFRF_DP	-	3.5mm Female	FDP48
		187CLKA5-NRFEF_DP	187CLKA5-NRFRF_DP	187CLKA5-NEFEF_DP	N type Female	FDP48
		-	187CLKA5-7RFRF_DP	-	7mm	FDP48
		187CLKA5-SRFEF_AP	187CLKA5-SRFRF_AP	187CLKA5-SEFEF_AP	SMA Female	FAP48
		-	187CLKA5-3.5RFRF_AP	-	3.5mm Female	FAP48
		187CLKA5-NRFEF_AP	-	187CLKA5-NEFEF_AP	N type Female	FAP48
		187CLKA5-SRFEF_P0	187CLKA5-SRFRF_P0	187CLKA5-SEFEF_P0	SMA Female	APF187
		-	187CLKA5-3.5RFRF_P0	-	3.5mm Female	APF187
		187CLKA5-NRFEF_P0	-	187CLKA5-NEFEF_P0	N type Female	APF187



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WG VNA Calibration Kits

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR75	10.0-15.0	75CLKA5-SRFEF_PB	75CLKA5-SRFRF_PB	75CLKA5-SEFEF_PB	SMA Female	APF75B
		-	75CLKA5-3.5RFRF_PB	-	3.5mm Female	APF75B
		75CLKA5-NRFEF_PB	75CLKA5-NRFRF_PB	75CLKA5-NEFEF_PB	N type Female	APF75B
		-	75CLKA5-7RFRF_PB	-	7mm	APF75B
		75CLKA5-SRFEF_DP	-	75CLKA5-SEFEF_DP	SMA Female	FDP120
		75CLKA5-NRFEF_DP	-	75CLKA5-NEFEF_DP	N type Female	FDP120
WR62	12.4-18.0	62CLKA5-SRFEF_P0	62CLKA5-SRFRF_P0	62CLKA5-SEFEF_P0	SMA Female	APF62
		-	62CLKA5-3.5RFRF_P0	-	3.5mm Female	APF62
		62CLKA5-NRFEF_P0	62CLKA5-NRFRF_P0	62CLKA5-NEFEF_P0	N type Female	APF62
		-	62CLKA5-7RFRF_P0	-	7mm	APF62
		62CLKA5-SRFEF_DP	-	62CLKA5-SEFEF_DP	SMA Female	FDP140
		62CLKA5-NRFEF_DP	-	62CLKA5-NEFEF_DP	N type Female	FDP140
WR51	15.0-22.0	51CLKA5-SRFEF_PC	51CLKA5-SRFRF_PC	51CLKA5-SEFEF_PC	SMA Female	APF51C
		51CLKA5-SRFEF_PA	51CLKA5-SRFRF_PA	51CLKA5-SEFEF_PA	SMA Female	APF51A
		51CLKA5-SRFEF_PB	51CLKA5-SRFRF_PB	51CLKA5-SEFEF_PB	SMA Female	APF51B
		51CLKA5-SRFEF_DP	-	51CLKA5-SEFEF_DP	SMA Female	FDP180
WR42	18.0-26.5	42CLKA5-SRFEF_P0	42CLKA5-SRFRF_P0	42CLKA5-SEFEF_P0	SMA Female	APF42
		42CLKA5-KRFEF_P0	42CLKA5-KRFRF_P0	42CLKA5-KEFEF_P0	2.92mm Female	APF42
		-	42CLKA5-3.5RFRF_P0	-	3.5mm Female	APF42
WR34	22.0-33.0	34CLKA5-KRFEF_BP	34CLKA5-KRFRF_BP	34CLKA5-KEFEF_BP	2.92mm Female	FBP260
		34CLKA5-KRFEF_P0	34CLKA5-KRFRF_P0	34CLKA5-KEFEF_P0	2.92mm Female	APF34
WR28	26.5-40.0	28CLKA5-KRFEF_P0	28CLKA5-KRFRF_P0	28CLKA5-KEFEF_P0	2.92mm Female	APF28
		28CLKA5-2.4RFEF_P0	28CLKA5-2.4RFRF_P0	28CLKA5-2.4EFEF_P0	2.4mm Female	APF28
		28CLKA5-1_P0	-	-	-	APF28

Flange Description

Below flanges are available for WG Calibration Kits

- Standard Flange
- Precision Flange (APF)

The AINFO Precision Flanges(APF) on these components have precision indexing holes and indexing pins for precise mating alignment that maximizes measurement repeatability. They conform to all EIA WR standards for rectangular or round waveguide flanges.



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WG VNA Calibration Kits

4. WG VNA Calibration Kits - CLKB1 Kits Series



28CLKB1-KRFRF_P0

Features

- 1.7 to 40GHz
- WR430 Through WR28
- Short-Short-Load-Through (SSLT) calibration method using offset short
- Sliding Load Calibration
- Keysight (Agilent), Anritsu and Rohde & Schwarz VNAs Supported

Description

The A-INFO CLKB1 Series Calibration Kits are waveguide kits designed to provide accurate SSLT(Short-Short-Load-Thru) calibration of VNA for measurement in rectangular waveguide from WR430 to WR28 (1.7 to 40GHz). CLKB1 Series Calibration Kits provide all the necessary components for an accurate SSLT calibration. In addition to SSLT calibration, CLKB1 Series can also make one-port SSL(Short-Short-Load) calibrations. All kit components have both standard flange and precision flange(APF Series).



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WG VNA Calibration Kits

Components included in CLKB1 Series Waveguide Calibration Kits

QTY	Description	Notes
2	WG to Coaxial Adapter	Refer below table for each WG band.
1	Precision fixed termination	-
1	Precision Sliding Termination	-
1	Fixed (reference plane) Short	-
1	1/8λ high precision offset short	-
1	3/8λ high precision offset short	-
1	Verification Standard	-
1~3	Screw Pack	Qty is depending on WG band.
1	Dowel Pack	For APF flange only.
1	Hex Ball Driver	-
1	Calibration Software	Optional, not included in standard Model.
1	Carrying Case	-

Notes:

Indexing refer Precision Flange (APF)

Calibration Software currently supports Keysight 872x Series, PNA Series, Anritsu and Rohde&Schwarz ZVx Series. Please ask A-INFO for more information when place order.

Model Information

Example Part Number: 284 CLKB1 -XABAB _DP

Waveguide Size: WR430 to WR28

Product Code, CLKB1 Series WG Calibration Kits

Test Port Adapter Connector Option:

X: Connector type, S for SMA; N for N type; 3.5 for 3.5mm, K for 2.92mm, 2.4 for 2.4mm, 1.85 for 1.85mm.

A: Type for WG to coaxial adapter, R for Right Angle, E for Endlunch.

B: Gender for each adapter, F for female, M for Male.

For Example: -SRFEF, S means the connector type of WG to coaxial adapters in Calibration Kits is SMA. RF means one adapter is Right Angle with Female connector, EF means another one is Endlaunch with Female connector.

Order Kits with no Adapter Option: use -0, For example 90CLKA5-0_PB

(Note: Each model listed below can offer "-0" option)

Order Kits with Two WG/WG Test Port Adapters Option: use -1

(Note: No WG to Coaxial Adapter in "-1" option)

Flange Code, refer below model list table.



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WG VNA Calibration Kits

Standard CLKB1 Series Waveguide Calibration Kits Model List

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR430	1.7-2.6	430CLKB1-NRFEF_P0	-	430CLKB1-NEFEF_P0	N type Female	APF430
		430CLKB1-SRFEF_P0	-	430CLKB1-SEFEF_P0	SMA Female	APF430
WR340	2.2-3.3	340CLKB1-NRFEF_P0	-	340CLKB1-NEFEF_P0	N type Female	APF340
		340CLKB1-SRFEF_P0	-	340CLKB1-SEFEF_P0	SMA Female	APF340
WR284	2.6-3.95	284CLKB1-NRFEF_DP	-	284CLKB1-NEFEF_DP	N type Female	FDP32
		284CLKB1-SRFEF_DP	-	284CLKB1-SEFEF_DP	SMA Female	FDP32
		284CLKB1-NRFEF_AP	284CLKB1-NRFRF_AP	284CLKB1-NEFEF_AP	N type Female	FAP32
		284CLKB1-SRFEF_AP	284CLKB1-SRFRF_AP	284CLKB1-SEFEF_AP	SMA Female	FAP32
		284CLKB1-NRFEF_PB	284CLKB1-NRFRF_PB	284CLKB1-NEFEF_PB	N type Female	APF284B
		284CLKB1-SRFEF_PB	284CLKB1-SRFRF_PB	284CLKB1-SEFEF_PB	SMA Female	APF284B
WR229	3.3-4.9	229CLKB1-SRFEF_DP	-	229CLKB1-SEFEF_DP	SMA Female	FDP40
		229CLKB1-NRFEF_DP	-	229CLKB1-NEFEF_DP	N type Female	FDP40
		229CLKB1-SRFEF_P0	-	229CLKB1-SEFEF_P0	SMA Female	APF229
		229CLKB1-NRFEF_P0	-	229CLKB1-NEFEF_P0	N type Female	APF229



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WG VNA Calibration Kits

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR187	3.95-5.85	187CLKB1-SRFEF_DP	187CLKB1-SRFRF_DP	187CLKB1-SEFEF_DP	SMA Female	FDP48
		-	187CLKB1-3.5RFRF_DP	-	3.5mm Female	FDP48
		187CLKB1-NRFEF_DP	187CLKB1-NRFRF_DP	187CLKB1-NEFEF_DP	N type Female	FDP48
		-	187CLKB1-7RFRF_DP	-	7mm	FDP48
		187CLKB1-SRFEF_AP	187CLKB1-SRFRF_AP	187CLKB1-SEFEF_AP	SMA Female	FAP48
		-	187CLKB1-3.5RFRF_AP	-	3.5mm Female	FAP48
		187CLKB1-NRFEF_AP	-	187CLKB1-NEFEF_AP	N type Female	FAP48
		187CLKB1-SRFEF_P0	187CLKB1-SRFRF_P0	187CLKB1-SEFEF_P0	SMA Female	APF187
		-	187CLKB1-3.5RFRF_P0	-	3.5mm Female	APF187
WR159	4.90-7.05	187CLKB1-NRFEF_P0	-	187CLKB1-NEFEF_P0	N type Female	APF187
		159CLKB1-SRFEF_DP	159CLKB1-SRFRF_DP	159CLKB1-SEFEF_DP	SMA Female	FDP58
		-	159CLKB1-3.5RFRF_DP	-	3.5mm Female	FDP58
		159CLKB1-NRFEF_DP	159CLKB1-NRFRF_DP	159CLKB1-NEFEF_DP	N type Female	FDP58
		-	159CLKB1-7RFRF_DP	-	7mm	FDP58
		159CLKB1-SRFEF_P0	159CLKB1-SRFRF_P0	159CLKB1-SEFEF_P0	SMA Female	APF159
		-	159CLKB1-3.5RFRF_P0	-	3.5mm Female	APF159
		159CLKB1-NRFEF_P0	159CLKB1-NRFRF_P0	159CLKB1-NEFEF_P0	N type Female	APF159
		-	159CLKB1-7RFRF_P0	-	7mm	APF159
WR137	5.85-8.20	137CLKB1-SRFEF_DP	137CLKB1-SRFRF_DP	137CLKB1-SEFEF_DP	SMA Female	FDP70
		-	137CLKB1-3.5RFRF_DP	-	3.5mm Female	FDP70
		137CLKB1-NRFEF_DP	137CLKB1-NRFRF_DP	137CLKB1-NEFEF_DP	N type Female	FDP70
		-	137CLKB1-7RFRF_DP	-	7mm	FDP70
		137CLKB1-SRFEF_AP	137CLKB1-SRFRF_AP	137CLKB1-SEFEF_AP	SMA Female	FAP70
		-	137CLKB1-3.5RFRF_AP	-	3.5mm Female	FAP70
		137CLKB1-NRFEF_AP	-	137CLKB1-NEFEF_AP	N type Female	FAP70
		137CLKB1-SRFEF_P0	137CLKB1-SRFRF_P0	137CLKB1-SEFEF_P0	SMA Female	APF137
		-	137CLKB1-3.5RFRF_P0	-	3.5mm Female	APF137
WR112	7.05-10.0	137CLKB1-NRFEF_P0	-	137CLKB1-NEFEF_P0	N type Female	APF137
		112CLKB1-SRFEF_PB	112CLKB1-SRFRF_PB	112CLKB1-SEFEF_PB	SMA Female	APF112B
		-	112CLKB1-3.5RFRF_PB	-	3.5mm Female	APF112B
		112CLKB1-NRFEF_PB	112CLKB1-NRFRF_PB	112CLKB1-NEFEF_PB	N type Female	APF112B
		-	112CLKB1-7RFRF_PB	-	7mm	APF112B
		112CLKB1-SRFEF_DP	112CLKB1-SRFRF_DP	112CLKB1-SEFEF_DP	SMA Female	FDP84
		-	112CLKB1-3.5RFRF_DP	-	3.5mm Female	FDP84
		112CLKB1-NRFEF_DP	-	112CLKB1-NEFEF_DP	N type Female	FDP84
		112CLKB1-SRFEF_P0	112CLKB1-SRFRF_P0	112CLKB1-SEFEF_P0	SMA Female	APF112
		-	112CLKB1-3.5RFRF_P0	-	3.5mm Female	APF112
		112CLKB1-NRFEF_P0	-	112CLKB1-NEFEF_P0	N type Female	APF112



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WG VNA Calibration Kits

EIA WR	Freq. Range (GHz)	One Right Angle Adp. One Endlaunch Adp. P/N	Two Right Angle Adps. P/N	Two Endlaunch Adps. P/N	Adapter Connector	Adapter Flange
WR90	8.2-12.4	90CLKB1-SRFEF_PB	90CLKB1-SRFRF_PB	90CLKB1-SEFEF_PB	SMA Female	APF90B
		-	90CLKB1-3.5RFRF_PB	-	3.5mm Female	APF90B
		90CLKB1-NRFEF_PB	90CLKB1-NRFRF_PB	90CLKB1-NEFEF_PB	N type Female	APF90B
		-	90CLKB1-7RFRF_PB	-	7mm	APF90B
		90CLKB1-SRFEF_DP	-	90CLKB1-SEFEF_DP	SMA Female	FDP100
		90CLKB1-NRFEF_DP	-	90CLKB1-NEFEF_DP	N type Female	FDP100
		90CLKB1-SRFEF_P0	-	90CLKB1-SEFEF_P0	SMA Female	APF90
		90CLKB1-NRFEF_P0	-	90CLKB1-NEFEF_P0	N type Female	APF90
		90CLKB1-SRFEF_PA	-	90CLKB1-SEFEF_PA	SMA Female	APF90A
		90CLKB1-NRFEF_PA	-	90CLKB1-NEFEF_PA	N type Female	APF90A
WR75	10.0-15.0	75CLKB1-SRFEF_PB	75CLKB1-SRFRF_PB	75CLKB1-SEFEF_PB	SMA Female	APF75B
		-	75CLKB1-3.5RFRF_PB	-	3.5mm Female	APF75B
		75CLKB1-NRFEF_PB	75CLKB1-NRFRF_PB	75CLKB1-NEFEF_PB	N type Female	APF75B
		-	75CLKB1-7RFRF_PB	-	7mm	APF75B
		75CLKB1-SRFEF_DP	-	75CLKB1-SEFEF_DP	SMA Female	FDP120
		75CLKB1-NRFEF_DP	-	75CLKB1-NEFEF_DP	N type Female	FDP120
WR62	12.4-18.0	62CLKB1-SRFEF_P0	62CLKB1-SRFRF_P0	62CLKB1-SEFEF_P0	SMA Female	APF62
		-	62CLKB1-3.5RFRF_P0	-	3.5mm Female	APF62
		62CLKB1-NRFEF_P0	62CLKB1-NRFRF_P0	62CLKB1-NEFEF_P0	N type Female	APF62
		-	62CLKB1-7RFRF_P0	-	7mm	APF62
		62CLKB1-SRFEF_DP	-	62CLKB1-SEFEF_DP	SMA Female	FDP140
		62CLKB1-NRFEF_DP	-	62CLKB1-NEFEF_DP	N type Female	FDP140
WR51	15.0-22.0	51CLKB1-SRFEF_PC	51CLKB1-SRFRF_PC	51CLKB1-SEFEF_PC	SMA Female	APF51C
		51CLKB1-SRFEF_PA	51CLKB1-SRFRF_PA	51CLKB1-SEFEF_PA	SMA Female	APF51A
		51CLKB1-SRFEF_PB	51CLKB1-SRFRF_PB	51CLKB1-SEFEF_PB	SMA Female	APF51B
		51CLKB1-SRFEF_DP	-	51CLKB1-SEFEF_DP	SMA Female	FDP180
WR42	18.0-26.5	42CLKB1-SRFEF_P0	42CLKB1-SRFRF_P0	42CLKB1-SEFEF_P0	SMA Female	APF42
		42CLKB1-KRFEF_P0	42CLKB1-KRFRF_P0	42CLKB1-KEFEF_P0	2.92mm Female	APF42
		-	42CLKB1-3.5RFRF_P0	-	3.5mm Female	APF42
WR34	22.0-33.0	34CLKB1-KRFEF_BP	34CLKB1-KRFRF_BP	34CLKB1-KEFEF_BP	2.92mm Female	FBP260
		34CLKB1-KRFEF_P0	34CLKB1-KRFRF_P0	34CLKB1-KEFEF_P0	2.92mm Female	APF34
WR28	26.5-40.0	28CLKB1-KRFEF_P0	28CLKB1-KRFRF_P0	28CLKB1-KEFEF_P0	2.92mm Female	APF28
		28CLKB1-2.4RFEF_P0	28CLKB1-2.4RFRF_P0	28CLKB1-2.4EFEF_P0	2.4mm Female	APF28
		28CLKB1-1_P0	-	-	-	APF28

Flange Description

Below flanges are available for WG Calibration Kits

- Standard Flange
- Precision Flange (APF)

The AINFO Precision Flanges(APF) on these components have precision indexing holes and indexing pins for precise mating alignment that maximizes measurement repeatability. They conform to all EIA WR standards for rectangular or round waveguide flanges.



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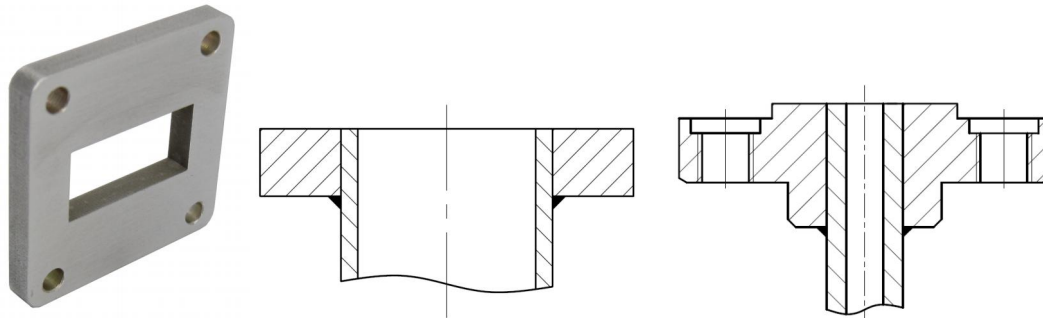
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WG Flange

WG Flange

1. WG Flange



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manufactured as custom products.

Ordering Information	
Waveguide Flange	
Example Number:	10-FUGP900
Model No. From Above Table	
10 – Waveguide Type (WR10)	
FUGP900 – Flange Type	

EIA WR	Frequency Range (GHz)	P/N	Flange	Mat.
WR2300	0.32-0.49	2300-FDP3	FDP3	Al
WR2100	0.35-0.53	2100-FDP4	FDP4	Al
WR1800	0.41-0.62	1800-FDP5	FDP5	Al
WR1500	0.49-0.75	1500-FDP6	FDP6	Al
WR1150	0.64-0.96	1150-FDP8	FDP8	Al
WR975	0.75-1.12	975-FDP9	FDP9	Al
WR770	0.96-1.45	770-FDP12	FDP12	Al
WR650	1.12-1.70	650-FDP14	FDP14	Al
WR650	1.12-1.70	650-FDM14	FDM14	Al



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WG Flange

EIA WR	Frequency Range (GHz)	P/N	Flange	Mat.
WR510	1.45-2.20	510-FDP18	FDP18	Al
WR510	1.45-2.20	510-FDM18	FDM18	Al
WR430	1.70-2.60	430-FDM22	FDM22	Al/Cu
WR430	1.70-2.60	430-APF430	APF430	Al/Cu
WR340	2.20-3.30	340-FDP26	FDP26	Al/Cu
WR340	2.20-3.30	340-FDM26	FDM26	Al/Cu
WR340	2.20-3.30	340-APF340	APF340	Al/Cu
WR284	2.60-3.95	284-FDP32	FDP32	Al/Cu
WR284	2.60-3.95	284-FDM32	FDM32	Al/Cu
WR284	2.60-3.95	284-FAP32	FAP32	Al/Cu
WR284	2.60-3.95	284-FAM32	FAM32	Al/Cu
WR284	2.60-3.95	284-FAE32	FAE32	Al/Cu
WR284	2.60-3.95	284-FEP32	FEP32	Al/Cu
WR284	2.60-3.95	284-APF284B	APF284B	Al/Cu
WR284	2.60-3.95	284-APF284	APF284	Al/Cu
WR284	2.60-3.95	284-APF284C	APF284C	Al/Cu
WR229	3.30-4.90	229-FDP40	FDP40	Al/Cu
WR229	3.30-4.90	229-FDM40	FDM40	Al/Cu
WR229	3.30-4.90	229-FAP40	FAP40	Al/Cu
WR229	3.30-4.90	229-FAM40	FAM40	Al/Cu
WR229	3.30-4.90	229-FAE40	FAE40	Al/Cu
WR229	3.30-4.90	229-FEP40	FEP40	Al/Cu
WR229	3.30-4.90	229-APF229	APF229	Al/Cu
WR229	3.30-4.90	229-APF229B	APF229B	Al/Cu
WR187	3.95-5.85	187-FDP48	FDP48	Al/Cu
WR187	3.95-5.85	187-FDM48	FDM48	Al/Cu
WR187	3.95-5.85	187-FAP48	FAP48	Al/Cu
WR187	3.95-5.85	187-FAM48	FAM48	Al/Cu
WR187	3.95-5.85	187-FAE48	FAE48	Al/Cu
WR187	3.95-5.85	187-FEP48	FEP48	Al/Cu
WR187	3.95-5.85	187-APF187	APF187	Al/Cu
WR187	3.95-5.85	187-APF187C	APF187C	Al/Cu
WR159	4.90-7.05	159-FDP58	FDP58	Al/Cu
WR159	4.90-7.05	159-FDM58	FDM58	Al/Cu
WR159	4.90-7.05	159-FAP58	FAP58	Al/Cu
WR159	4.90-7.05	159-FAM58	FAM58	Al/Cu
WR159	4.90-7.05	159-FAE58	FAE58	Al/Cu
WR159	4.90-7.05	159-FEP58	FEP58	Al/Cu



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WG Flange

EIA WR	FrequencyRange (GHz)	P/N	Flange	Mat.
WR159	4.90-7.05	159-APF159	APF159	Al/Cu
WR159	4.90-7.05	159-APF159B	APF159B	Al/Cu
WR137	5.85-8.20	137-FDP70	FDP70	Al/Cu
WR137	5.85-8.20	137-FDM70	FDM70	Al/Cu
WR137	5.85-8.20	137-FAP70	FAP70	Al/Cu
WR137	5.85-8.20	137-FAM70	FAM70	Al/Cu
WR137	5.85-8.20	137-FAE70	FAE70	Al/Cu
WR137	5.85-8.20	137-FEP70	FEP70	Al/Cu
WR112	7.05-10.0	112-FEP84	FEP84	Al/Cu
WR112	7.05-10.0	112-APF112B	APF112B	Al/Cu
WR112	7.05-10.0	112-APF112	APF112	Al/Cu
WR90	8.20-12.4	90-FBP100	FBP100	Cu/Al
WR90	8.20-12.4	90-FBM100	FBM100	Cu/Al
WR90	8.20-12.4	90-FBE100	FBE100	Cu/Al
WR90	8.20-12.4	90-FDP100	FDP100	Cu/Al
WR90	8.20-12.4	90-FDM100	FDM100	Cu/Al
WR90	8.20-12.4	90-FEP100	FEP100	Cu/Al
WR90	8.20-12.4	90-APF90B	APF90B	Cu/Al
WR90	8.20-12.4	90-APF90	APF90	Cu/Al
WR90	8.20-12.4	90-APF90A	APF90A	Cu/Al
WR75	10.0-15.0	75-FBP120	FBP120	Cu/Al
WR75	10.0-15.0	75-FBM120	FBM120	Cu/Al
WR75	10.0-15.0	75-FBE120	FBE120	Cu/Al
WR75	10.0-15.0	75-FDP120	FDP120	Cu/Al
WR75	10.0-15.0	75-FDM120	FDM120	Cu/Al
WR75	10.0-15.0	75-APF75B	APF75B	Cu/Al
WR75	10.0-15.0	75-APF75A	APF75A	Cu/Al
WR62	12.4-18.0	62-FBP140	FBP140	Cu/Al
WR62	12.4-18.0	62-FBM140	FBM140	Cu/Al
WR62	12.4-18.0	62-FBE140	FBE140	Cu/Al
WR62	12.4-18.0	62-FDP140	FDP140	Cu/Al
WR62	12.4-18.0	62-FDM140	FDM140	Cu/Al
WR62	12.4-18.0	62-APF62	APF62	Cu/Al
WR51	15.0-22.0	51-FBP180	FBP180	Cu/Al
WR51	15.0-22.0	51-FBM180	FBM180	Cu/Al
WR51	15.0-22.0	51-FBE180	FBE180	Cu/Al
WR51	15.0-22.0	51-FDP180	FDP180	Cu/Al
WR51	15.0-22.0	51-FDM180	FDM180	Cu/Al

WG Flange

EIA WR	Frequency Range (GHz)	P/N	Flange	Mat.
WR51	15.0-22.0	51-APF51C	APF51C	Cu/Al
WR51	15.0-22.0	51-APF51B	APF51B	Cu/Al
WR51	15.0-22.0	51-APF51A	APF51A	Cu/Al
WR42	18.0-26.5	42-FBP220	FBP220	Cu/Al
WR42	18.0-26.5	42-FBM220	FBM220	Cu/Al
WR42	18.0-26.5	42-FBE220	FBE220	Cu/Al
WR42	18.0-26.5	42-APF42	APF42	Cu/Al
WR34	22.0-33.0	34-FBP260	FBP260	Cu/Al
WR34	22.0-33.0	34-FBM260	FBM260	Cu/Al
WR34	22.0-33.0	34-FBE260	FBE260	Cu/Al
WR34	22.0-33.0	34-APF34	APF34	Cu/Al
WR28	26.5-40.0	28-FBP320	FBP320	Cu/Al
WR28	26.5-40.0	28-FBM320	FBM320	Cu/Al
WR28	26.5-40.0	28-FBE320	FBE320	Cu/Al
WR28	26.5-40.0	28-APF28	APF28	Cu/Al
WR22	33.0-50.0	22-FUGP400_Cu	FUGP400	Cu
WR22	33.0-50.0	22-APF22_Cu	APF22	Cu
WR22	33.0-50.0	22-APF22A_Cu	APF22A	Cu
WR19	40.0-60.0	19-FUGP500_Cu	FUGP500	Cu
WR19	40.0-60.0	19-APF19_Cu	APF19	Cu
WR19	40.0-60.0	19-APF19A_Cu	APF19A	Cu
WR15	50.0-75.0	15-FUGP620_Cu	FUGP620	Cu
WR15	50.0-75.0	15-APF15_Cu	APF15	Cu
WR15	50.0-75.0	15-APF15A_Cu	APF15A	Cu
WR12	60.0-90.0	12-FUGP740_Cu	FUGP740	Cu
WR12	60.0-90.0	12-APF12_Cu	APF12	Cu
WR12	60.0-90.0	12-APF12A_Cu	APF12A	Cu
WR10	75.0-110.0	10-FUGP900_Cu	FUGP900	Cu
WR10	75.0-110.0	10-FAP900_Cu	FAP900	Cu
WR10	75.0-110.0	10-APF10_Cu	APF10	Cu
WR10	75.0-110.0	10-APF10A_Cu	APF10A	Cu
WR8	90.0-140.0	8-UG387_Cu	UG387	Cu
WR6	110.0-170.0	6-UG387_Cu	UG387	Cu
WR5	140.0-220.0	5-UG387_Cu	UG387	Cu



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WG Flange

2. WG Flange - Double Ridge



A-INFO series double ridge waveguide flanges are offered for any waveguide size and flange style in 0.84 to 40 GHz range covering waveguide bands WRD84D24 to WRD180C24. All flanges are available in brass, aluminum, or copper as material. Special flanges can be designed and manufactured as custom products.

Ordering Information	
Double Ridge Waveguide Flanges	
Example Number:	WRD650-FPWRD650D28
Model No. From Above Table	
WRD650 – Waveguide Type (WRD650D28)	
FPWRD650D28 – Flange Type	

EIA WRD	Frequency (GHz)	P/N	Flange	Mat.
WRD84	0.84-2.0	WRD84-FPWRD84D24	FPWRD84D24	Al/Cu
WRD200	2.0-4.8	WRD200-FPWRD200D24	FPWRD200D24	Al/Cu
WRD250	2.6-7.8	WRD250-FPWRD250D30	FPWRD250D30	Al/Cu
WRD350	3.5-8.2	WRD350-FPWRD350D24	FPWRD350D24	Al/Cu
WRD475	4.75-11.0	WRD475-FPWRD475D24	FPWRD475D24	Al/Cu
WRD580	5.8-16.0	WRD580-FPWRD580D28_Cu	FPWRD580D28	Cu
WRD650	6.5-18.0	WRD650-FPWRD650D28_Cu	FPWRD650D28	Cu
WRD750	7.5-18.0	WRD750-FPWRD750D24_Cu	FPWRD750D24	Cu
WRD110	11.0-26.5	WRD110-FPWRD110C24_Cu	FPWRD110C24	Cu
WRD180	18.0-40.0	WRD180-FPWRD180C24_Cu	FPWRD180C24	Cu



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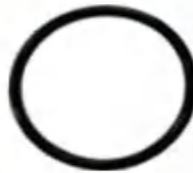
WG Gasket

WG Gasket

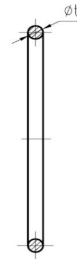
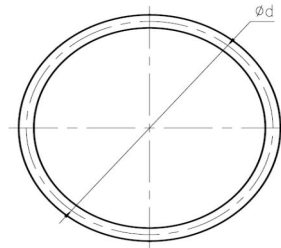
1. WG Gasket - Circular



Material: Silicone Rubber



Material: Conductive Silicone Rubber



Gasket	WR	- Flange	-M
Example Part Number:	90	-FBM100	-R
Waveguide Size: (WR) WR28 to WR650			
Basic Model No.: (-Flange)			
Material (M): R=Silicone Rubber, RC=Conductive Silicone Rubber			

EIA WR	P/N	Flange	Size (mm)	
			Φd	Φt
WR284	284-FAM32-R	FAM32	106.9	5.4
WR229	229-FAM40-R	FAM40	-	-
WR187	187-FAM48-R	FAM48	-	-
WR159	159-FAM58-R	FAM58	64.3	3.5
WR137	137-FAM70-R	FAM70	56.3	3.5
WR112	112-FBM84-R	FBM84	42.5	2.6
WR90	90-FBM100-R	FBM100	36.2	2.6
WR90	90-FBM100-RC	FBM100	36.2	2.6
WR75	75-FBM120-R	FBM120	30.3	2.6
WR62	62-FBM140-R	FBM140	26.1	2.6
WR51	51-FBM180-R	FBM180	22.2	2.6
WR42	42-FBM220-R	FBM220	17.1	1.9
WR34	34-FBM260-R	FBM260	15.7	1.9
WR28	28-FBM320-R	FBM320	12.5	1.9



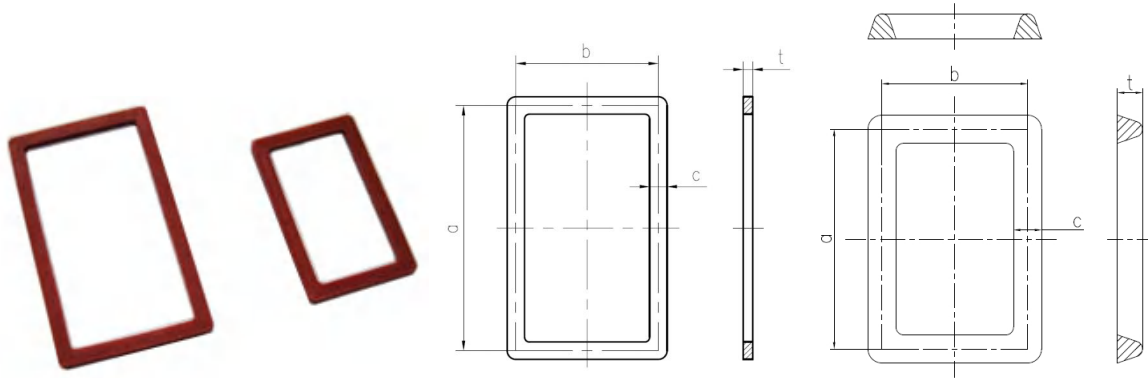
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WG Gasket

2. WG Gasket - Rectangular



Gasket	WR	- Flange	-M
Example Part Number:	90	-FBM100	-R
Waveguide Size: (WR) WR28 to WR650			
Basic Model No.: (-Flange)			
Material (M): R=Silicone Rubber, RC=Conductive Silicone Rubber			

EIA WR	P/N	Flange	Figure	Size(mm)			
				a	b	c	t
WR650	650-FDM14-R	FDM14	Figure 2	-	-	-	-
WR510	510-FDM18-R	FDM18	Figure 2	147.3	82.3	7.3	4.5
WR430	430-FDM22-R	FDM22	Figure 2	125.7	71.1	7.3	4.5
WR340	340-FDM26-R	FDM26	Figure 2	102.9	59.7	7.3	4.5
WR284	284-FDM32-R	FDM32	Figure 2	84.2	46.1	4.8	3.5
WR229	229-FDM40-R	FDM40	Figure 2	69.3	40.2	4.8	3.5
WR187	187-FDM48-R	FDM48	Figure 1	58.7	33.3	4.8	2.8
WR159	159-FDM58-R	FDM58	Figure 1	51.5	31.3	4.8	2.8
WR137	137-FDM70-R	FDM70	Figure 1	44.8	25.8	3	2.7
WR112	112-FDM84-R	FDM84	Figure 1	38.5	22.6	3.6	2.7
WR90	90-FDM100-R	FDM100	Figure 1	32.2	19.5	3.6	2.7
WR75	75-FDM120-R	FDM120	Figure 2	28.2	18.7	3.6	3.2
WR62	62-FDM140-R	FDM140	Figure 2	24.2	16.3	3.6	3.2
WR51	51-FDM180-R	FDM180	Figure 2	-	-	-	-



WG Detector

WG Detector

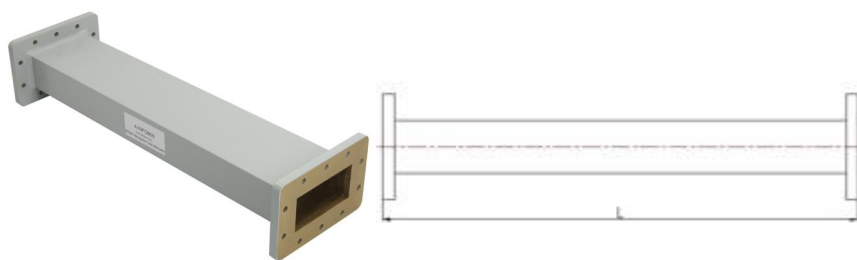


P/N	Frequency (GHz)	Sensitivity (mV/mW)	EIA WR	Anti-Burning Power (mW)	Detector	Response Speed	Connector
284JBQ-P	2.60-3.95	300	WR284	25-100	Positive	2us	SMA
284JBQ-N					Negative		
229JBQ-P	3.30-4.90	300	WR229	25-100	Positive	2us	SMA
229JBQ-N					Negative		
187JBQ-P	3.95-5.85	300	WR187	25-100	Positive	2us	SMA
187JBQ-N					Negative		
159JBQ-P	4.90-7.05	300	WR159	25-100	Positive	2us	SMA
159JBQ-N					Negative		
137JBQ-P	5.85-8.20	300	WR137	25-100	Positive	2us	SMA
137JBQ-N					Negative		
112JBQ-P	7.05-10.0	300	WR112	25-100	Positive	2us	SMA
112JBQ-N					Negative		
90JBQ-P	8.2-12.4	200	WR90	25-100	Positive	2us	SMA
90JBQ-N					Negative		
75JBQ-P	10.0-15.0	200	WR75	25-100	Positive	2us	SMA
75JBQ-N					Negative		
62JBQ-P	12.4-18.0	200	WR62	25-100	Positive	2us	SMA
62JBQ-N					Negative		
51JBQ-P_Cu	15.0-22.0	200	WR51	25-100	Positive	2us	SMA
51JBQ-N_Cu					Negative		
42JBQ-P_Cu	18.0-26.5	200-400	WR42	25-100	Positive	2us	SMA
42JBQ-N_Cu					Negative		
34JBQ-P_Cu	22.0-33.0	400-600	WR34	25-100	Positive	2us	SMA
34JBQ-N_Cu					Negative		
28JBQ-P_Cu	26.5-40.0	400-600	WR28	25-100	Positive	2us	SMA
28JBQ-N_Cu					Negative		
22JBQ-P_Cu	33.0-50.0	200	WR22	25-100	Positive	2us	SMA
22JBQ-N_Cu					Negative		
19JBQ-P_Cu	40.0-60.0	200	WR19	25-100	Positive	2us	SMA
19JBQ-N_Cu					Negative		
15JBQ-P_Cu	50.0-75.0	50-70	WR15	25-100	Positive	2us	SMA
15JBQ-N_Cu					Negative		
12JBQ-P_Cu	60.0-90.0	50-70	WR12	25-100	Positive	20us	SMA
12JBQ-N_Cu					Negative		
10JBQ-P_Cu	75.0-110.0	30	WR10	50	Positive	50us	SMA
10JBQ-N_Cu					Negative		

WG Attenuator

WG Attenuator

1. WG Fixed Attenuator - General Purpose



Model Information

Example Part Number: 650 WFA -XX

Waveguide Size: WR650 to WR10

Product Code

Attenuation(dB)

P/N	Freq. (GHz)	EIA WR	Atten. (dB)	VSWR Max.	Flange	Mat.
650WFA-XX	1.12-1.7	WR650	3/6/10/20/30	1.25	FDP14	Al
510WFA-XX	1.45-2.2	WR510	3/6/10/20/30	1.25	FDP18	Al
430WFA-XX	1.7-2.6	WR430	3/6/10/20/30	1.25	FDP22	Al
340WFA-XX	2.2-3.3	WR340	3/6/10/20/30	1.25	FDP26	Al
340WFA-30-1	2.2-3.3	WR340	30	1.1	FDP26	Al
284WFA-XX	2.6-3.95	WR284	3/6/10/20/30	1.25	FDP32	Al
229WFA-XX	3.3-4.9	WR229	3/6/10/20/30	1.25	FDP40	Al
229WFA-30-1	3.3-4.9	WR229	30	1.25	FDP40	Al
187WFA-XX	3.95-5.85	WR187	3/6/10/20/30	1.25	FDP48	Al
159WFA-XX	4.9-7.05	WR159	3/6/10/20/30	1.25	FDP58	Al
137WFA-XX	5.85-8.2	WR137	3/6/10/20/30	1.25	FDP70	Al
137WFA-03-40	5.85-8.2	WR137	3±1	1.25	FDP70	Al
137WFA-03-2	5.85-8.2	WR137	3±1	1.25	FDP70	Al
137WFA-50-4	5.85-8.2	WR137	50±2.5	1.3	FDP70	Al

WG Attenuator

P/N	Freq. (GHz)	EIA WR	Atten. (dB)	VSWR Max.	Flange	Mat.
112WFA-XX	7.05-10	WR112	3/6/10/20/30	1.25	FBP84	Al
112WFA-30-2	7.05-10	WR112	30	1.25	FBP84	Al
112WFA-30-60	7.05-10	WR112	30	1.3	FBP84	Al
90WFA-XX	8.2-12.4	WR90	3/6/10/20/30	1.25	FBP100	Al
90WFA-06-5_BMBM	8.2-12.4	WR90	6	1.25	FBM100	Al
90WFA-10-5_BMBM	8.2-12.4	WR90	10	1.25	FBM100	Al
90WFA-30-1	8.2-12.4	WR90	30	1.25	FBP100	Al
90WFA-60-8	8.2-12.4	WR90	60	1.35	FBP100	Al
75WFA-XX	10-15	WR75	3/6/10/20/30	1.25	FBP120	Al
75WFA-6_Cu	10-15	WR75	6	1.25	FBP120	Cu
75WFA-06-1_Cu	10-15	WR75	6±1.0	1.25	FBP120	Cu
75WFA-10-1_Cu	10-15	WR75	10±1.5	1.25	FBP120	Cu
75WFA-20-1_Cu	10-15	WR75	20±2.0	1.25	FBP120	Cu
75WFA-30-40_Cu	10-15	WR75	30±3	1.25	FBP120	Cu
75WFA-30-150_Cu	10-15	WR75	30±1.5	1.25	FBP120	Cu
75WFA-50-150	10-15	WR75	50±3.5	1.25	FBP120	Al
75WFA-30-200_Cu	10-15	WR75	30±2	1.15	FBP120	Cu
62WFA-XX	12.4-18	WR62	3/6/10/20/30	1.25	FBP140	Al
62WFA-03-5_Cu_BMBM	12.4-18	WR62	3	1.25	FBM140	Cu
62WFA-10-1_Cu	12.4-18	WR62	10±1.5	1.25	FBP140	Cu
62WFA-10-5_Cu_BMBM	12.4-18	WR62	10	1.25	FBM140	Cu
62WFA-20-1_Cu	12.4-18	WR62	20±2	1.25	FBP140	Cu
51WFA-XX	15-22	WR51	3/6/10/20/30	1.25	FBP180	Cu
42WFA-XX	18-26.5	WR42	3/6/10/20/30	1.25	FBP220	Cu
42WFA-03-5_Cu_BMBM	18-26.5	WR42	3	1.25	FBM220	Cu
42WFA-10-1_Cu	18-26.5	WR42	10±1.5	1.25	FBP220	Cu
42WFA-10-2_Cu	18-26.5	WR42	10±1.5	1.25	FBP220	Cu
42WFA-10-5_Cu_BMBM	18-26.5	WR42	10	1.25	FBM220	Cu
42WFA-20-1_Cu	18-26.5	WR42	20±2	1.25	FBP220	Cu



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P/N	Freq. (GHz)	EIA WR	Atten. (dB)	VSWR Max.	Flange	Mat.
42WFA-30-2_Cu	18-26.5	WR42	27-33	1.2	FBP220	Cu
34WFA-XX	22-33	WR34	3/6/10/20/30	1.25	FBP260	Cu
28WFA-XX	26.5-40	WR28	3/6/10/20/30	1.25	FBP320	Cu
28WFA-03-2_Cu	26.5-40	WR28	3±1	1.3	FBP320	Cu
28WFA-10-2_Cu	26.5-40	WR28	10±2	1.3	FBP320	Cu
28WFA-20-2_Cu	26.5-40	WR28	20±2	1.25	FBP320	Cu
28WFA-30-2_Cu	26.5-40	WR28	30±2	1.3	FBP320	Cu
28WFA-30-5_Cu	26.5-40	WR28	30	1.25	FBP320	Cu
28WFA-30-30	26.5-40	WR28	30	1.3	FBP320	Al
28WFA-30-50	26.5-40	WR28	30±2.5	1.25	FBP320	Al
28WFA-30-200_Cu	26.5-40	WR28	30±2	1.25	FBP320	Cu
28WFA-40-2_Cu	26.5-40	WR28	40±3	1.25	FBP320	Cu
28WFA-40-50_Cu	26.5-40	WR28	40	1.25	FBP320	Cu
28WFA-50-500_Cu	26.5-40	WR28	50	1.25	FBP320	Cu
22WFA-XX_Cu	33-50	WR22	3/6/10/20/30	1.3	FUGP400	Cu
22WFA-03-1_Cu	33-50	WR22	3	1.3	FUGP400	Cu
22WFA-10-1_Cu	33-50	WR22	10	1.3	FUGP400	Cu
22WFA-20-1_Cu	33-50	WR22	20	1.3	FUGP400	Cu
22WFA-30-1_Cu	33-50	WR22	30	1.3	FUGP400	Cu
22WFA-20-100	33-50	WR22	20	1.2	FUGP400	Al
19WFA-XX_Cu	40-60	WR19	3/6/10/20/30	1.3	FUGP500	Cu
19WFA-20-0.5_Cu	40-60	WR19	20	1.3	FUGP500	Cu
19WFA-06-1_Cu	40-60	WR19	6	1.3	FUGP500	Cu
19WFA-10-1_Cu	40-60	WR19	10	1.3	FUGP500	Cu
19WFA-20-1_Cu	40-60	WR19	20	1.3	FUGP500	Cu
19WFA-30-1_Cu	40-60	WR19	30	1.3	FUGP500	Cu
15WFA-XX_Cu	50-75	WR15	3/6/10/20/30	1.3	FUGP620	Cu
15WFA-03-1_Cu	50-75	WR15	3±1	1.25	FUGP620	Cu
15WFA-06-1_Cu	50-75	WR15	6±1	1.25	FUGP620	Cu



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P/N	Freq. (GHz)	EIA WR	Atten. (dB)	VSWR Max.	Flange	Mat.
15WFA-10-1_Cu	50-75	WR15	10±2	1.25	FUGP620	Cu
15WFA-20-1_Cu	50-75	WR15	20±2	1.25	FUGP620	Cu
12WFA-XX_Cu	60-90	WR12	3/6/10/20/30	1.25	FUGP740	Cu
12WFA-03-1_Cu	60-90	WR12	3±1.0	1.25	FUGP740	Cu
12WFA-06-1_Cu	60-90	WR12	6±1.5	1.25	FUGP740	Cu
12WFA-10-1_Cu	60-90	WR12	10±1.5	1.25	FUGP740	Cu
12WFA-20-1_Cu	60-90	WR12	20±2.0	1.25	FUGP740	Cu
12WFA-30-1_Cu	60-90	WR12	30±2.5	1.25	FUGP740	Cu
12WFA-06-10_Cu	60-90	WR12	6±1	-	FUGP740	Cu
12WFA-10-10_Cu	60-90	WR12	10±1.5	-	FUGP740	Cu
12WFA-20-10_Cu	60-90	WR12	20±2.0	-	FUGP740	Cu
10WFA-XX_Cu	75-110	WR10	3/6/10/20/30	1.3	FUGP900	Cu
10WFA-10-0.5_Cu	75-110	WR10	10±2	1.2	FUGP900	Cu
10WFA-10-1_Cu	75-110	WR10	10±2	1.25	FUGP900	Cu
10WFA-20-0.5_Cu	75-110	WR10	20±2	1.25	FUGP900	Cu
10WFA-20-1_Cu	75-110	WR10	20±2	1.25	FUGP900	Cu
10WFA-30-0.5_Cu	75-110	WR10	30±3	1.25	FUGP900	Cu
10WFA-30-1_Cu	75-110	WR10	30±3	1.25	FUGP900	Cu



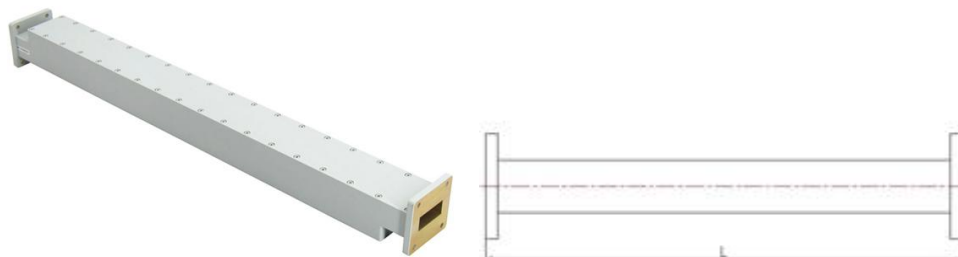
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WG Attenuator

2. WG Precision Fixed Attenuator – Low Power



Model Information

Example Part Number: 284 WPFA -XX

Waveguide Size: WR284 to WR10

Product Code

Attenuation(dB)

P/N	Freq. (GHz)	EIA WR	Atten. (dB)	Atten. Accuracy (dB)	Atten. Sens. (dB)	VSWR Max.	Avg. Power (W)	Flange	Mat.
284WPFA-XX	2.6-3.95	WR284	3/6/10/20/30/40/50	±0.9	±0.7	1.1	10	FDP32	Al
229WPFA-XX	3.3-4.9	WR229	3/6/10/20/30/40/50	±0.9	±0.7	1.1	10	FDP40	Al
187WPFA-XX	3.95-5.85	WR187	3/6/10/20/30/40/50	±0.9	±0.7	1.1	8	FDP48	Al
159WPFA-XX	4.9-7.05	WR159	3/6/10/20/30/40/50	±0.9	±0.7	1.1	7	FDP58	Al
137WPFA-XX	5.85-8.2	WR137	3/6/10/20/30/40/50	±0.9	±0.7	1.1	6	FDP70	Al
112WPFA-XX	7.05-10	WR112	3/6/20/30/40	±0.9	±0.7	1.1	4	FBP84	Al
112WPFA-XX	7.05-10	WR112	10/50	±0.9	±0.7	1.15	1.5	FBP84	Al
90WPFA-XX	8.2-12.4	WR90	3/6/10/20/30/40/50	±0.9	±0.7	1.1	4	FBP100	Al
75WPFA-XX	10-15	WR75	3/6/10/20/30/40/50	±0.9	±0.7	1.1	2	FBP120	Al
62WPFA-XX	12.4-18	WR62	3/6/10/20/30/40/50	±0.9	±0.7	1.1	1.5	FBP140	Al
51WPFA-XX_Cu	15-22	WR51	3/6/10/20/30/40/50	±0.9	±0.7	1.1	1	FBP180	Cu
42WPFA-XX_Cu	18-26.5	WR42	3/6/10/20/30/40/50	±1.0	±0.9	1.1	0.5	FBP220	Cu
34WPFA-XX_Cu	22-33	WR34	3/6/10/20/30/40/50	±1.0	±0.9	1.1	0.5	FBP260	Cu
28WPFA-XX_Cu	26.5-40	WR28	3/6/10/20/30/40/50	±1.0	±0.9	1.1	0.5	FBP320	Cu
22WPFA-XX_Cu	33-50	WR22	3/6/10/20/30/40/50	±1.3	±0.9	1.15	0.5	FUGP400	Cu
19WPFA-XX_Cu	40-60	WR19	3/6/10/20/30/40/50	±1.3	±0.9	1.15	0.3	FUGP500	Cu
15WPFA-XX_Cu	50-75	WR15	3/6/10/20/30/40/50	±1.3	±0.9	1.15	0.3	FUGP620	Cu
12WPFA-XX_Cu	60-90	WR12	3/6/10/20/30/40/50	±1.3	±0.9	1.15	0.2	FUGP740	Cu
10WPFA-XX_Cu	75-110	WR10	3/6/10/20/30/40/50	±1.3	±0.9	1.15	0.2	FUGP900	Cu



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WG Attenuator

3. WG Precision Fixed Attenuator – Low-Medium Power



Model Information

Example Part Number: 284 WPFA 45 -XX

Waveguide Size: WR284 to WR22

Product Code

Avg. Power (Watts)

Attenuation(dB)

P/N	Freq. (GHz)	EIA WR	Atten. (dB)	Atten. Accuracy (dB)	Atten. Sens. (dB)	VSWR Max.	Avg. Power (W)	Flange	Mat.
284WPFA45-XX	2.6-3.95	WR284	3/6/10/20/30/40/50	±0.9	±0.7	1.15	45	FDP32	Al
229WPFA40-XX	3.3-4.9	WR229	3/6/10/20/30/40/50	±0.9	±0.7	1.15	40	FDP40	Al
187WPFA40-XX	3.95-5.85	WR187	3/6/10/20/30/40/50	±0.9	±0.7	1.15	40	FDP48	Al
159WPFA30-XX	4.9-7.05	WR159	3/6/10/20/30/40/50	±0.9	±0.7	1.15	30	FDP58	Al
137WPFA25-XX	5.85-8.2	WR137	3/6/10/20/30/40/50	±0.9	±0.7	1.15	25	FDP70	Al
112WPFA25-XX	7.05-10	WR112	3/6/10/20/30/40/50	±0.9	±0.7	1.15	25	FBP84	Al
90WPFA10-XX	8.2-12.4	WR90	3/6/10/20/30/40/50/60	±0.9	±0.7	1.15	10	FBP100	Al
90WPFA25-XX	8.2-12.4	WR90	3/6/10/20/30/40/50	±0.9	±0.7	1.15	25	FBP100	Al
90WPFA50-XX	8.2-12.4	WR90	3/6/10/20/30/40/50	±0.9	±0.7	1.15	50	FBP100	Al
75WPFA5-XX	10-15	WR75	3/6/10/20/30/40/50	±0.9	±0.7	1.15	5	FBP120	Al
75WPFA25-XX	10-15	WR75	3/6/10/20/30/40/50	±0.9	±0.7	1.15	25	FBP120	Al
62WPFA3-XX	12.4-18	WR62	3/6/10/20/30/40/50	±0.9	±0.7	1.15	3	FBP140	Al



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P/N	Freq. (GHz)	EIA WR	Atten. (dB)	Atten. Accuracy (dB)	Atten. Sens. (dB)	VSWR Max.	Avg. Power (W)	Flange	Mat.
62WPFA15-XX	12.4-18	WR62	3/6/10/20/30/40/50	±0.9	±0.7	1.15	15	FBP140	Al
51WPFA3-XX_Cu	15-22	WR51	3/6/10/20/30/40/50	±0.9	±0.7	1.15	3	FBP180	Cu
51WPFA15-XX_Cu	15-22	WR51	3/6/10/20/30/40/50	±0.9	±0.7	1.15	15	FBP180	Cu
42WPFA2-XX_Cu	18-26.5	WR42	3/6/10/20/30/40/50	±0.9	±0.9	1.15	2	FBP220	Cu
42WPFA15-XX_Cu	18-26.5	WR42	3/6/10/20/30/40/50	±1.0	±0.9	1.15	15	FBP220	Cu
34WPFA2-XX_Cu	22-33	WR34	3/6/10/20/30/40/50	±1.0	±0.9	1.15	2	FBP260	Cu
34WPFA10-XX_Cu	22-33	WR34	3/6/10/20/30/40/50	±1.0	±0.9	1.15	10	FBP260	Cu
28WPFA2-XX_Cu	26.5-40	WR28	3/6/10/20/30/40/50/60	±1.0	±0.9	1.15	2	FBP320	Cu
28WPFA10-XX_Cu	26.5-40	WR28	3/6/10/20/30/40/50/60	±1.0	±0.9	1.15	10	FBP320	Cu
22WPFA1-XX_Cu	33-50	WR22	3/6/10/20/30/40/50	±1.3	±0.9	1.15	1	FUGP400	Cu
22WPFA5-XX_Cu	33-50	WR22	3/6/10/20/30/40/50	±1.3	±0.9	1.15	5	FUGP400	Cu
19WPFA0.6-XX_Cu	40-60	WR19	3/6/10/20/30/40/50	±1.3	±0.9	1.15	0.6	FUGP500	Cu
19WPFA3-XX_Cu	40-60	WR19	3/6/10/20/30/40/50	±1.3	±0.9	1.15	3	FUGP500	Cu
15WPFA0.6-XX_Cu	50-75	WR15	3/6/10/20/30/40/50	±1.3	±0.9	1.2	0.6	FUGP620	Cu
15WPFA3-XX_Cu	50-75	WR15	3/6/10/20/30/40/50	±1.3	±0.9	1.2	3	FUGP620	Cu
15WPFA10-20	50-75	WR15	20	±1.3	±0.9	1.15	3	FUGP620	Al
15WPFA10-30	50-75	WR15	30	±1.3	±0.9	1.15	3	FUGP620	Al
15WPFA15-20	50-75	WR15	20	±1.3	±0.9	1.15	3	FUGP620	Al
15WPFA15-30	50-75	WR15	30	±1.3	±0.9	1.15	15	FUGP620	Al
15WPFA35-30	50-75	WR15	30	±1.3	±0.9	1.15	35	FUGP620	Al
12WPFA0.4-XX_Cu	60-90	WR12	3/6/10/20/30/40/50	±1.3	±0.9	1.2	0.4	FUGP740	Cu
12WPFA2-XX_Cu	60-90	WR12	3/6/10/20/30/40/50	±1.3	±0.9	1.2	2	FUGP740	Cu
10WPFA0.4-XX_Cu	75-110	WR10	3/6/10/20/30/40/50	±1.3	±0.9	1.2	0.4	FUGP900	Cu
10WPFA2-XX_Cu	75-110	WR10	3/6/10/20/30/40/50	±1.3	±0.9	1.2	2	FUGP900	Cu



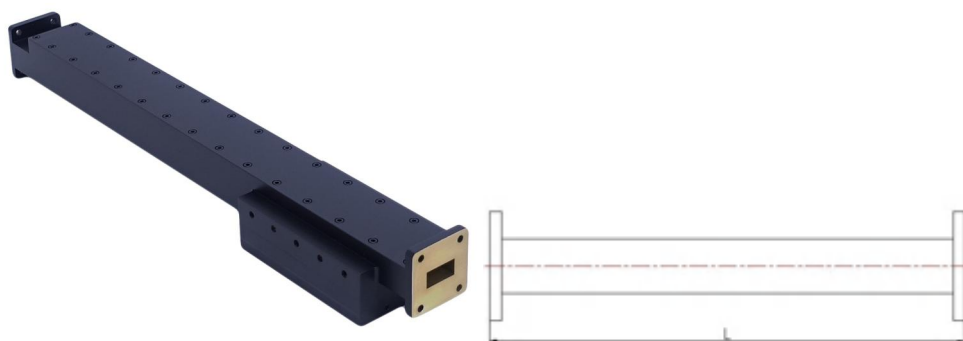
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WG Attenuator

4. WG Precision Fixed Attenuator – Medium Power



Model Information

Example Part Number: 284 WPFA 1200 -XX

Waveguide Size: WR284 to WR28

Product Code

Avg. Power (Watts)

Attenuation(dB)

P/N	Freq. (GHz)	EIA WR	Atten. (dB)	Atten. Accuracy (dB)	Atten. Sens. (dB)	VSWR Max.	Avg. Power (W)	Flange	Mat.
284WPFA1200-XX	2.6-3.95	WR284	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	1200	FDP32	Al
229WPFA1000-XX	3.3-4.9	WR229	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	1000	FDP40	Al
187WPFA750-XX	3.95-5.85	WR187	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	750	FDP48	Al
159WPFA625-XX	4.9-7.05	WR159	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	625	FDP58	Al
137WPFA500-XX	5.85-8.2	WR137	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	500	FDP70	Al
112WPFA425-XX	7.05-10	WR112	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	425	FBP84	Al
90WPFA225-XX	8.2-12.4	WR90	3/6/10/20/30 /40/50/60	±0.9	±0.7	1.15	225	FBP100	Al
75WPFA200-XX	10-15	WR75	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	200	FBP120	Al
75WPFA100-20	10-15	WR75	20	±0.9	±0.7	1.15	100	FBP120	Al
62WPFA100-XX	12.4-18	WR62	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	100	FBP140	Al
51WPFA100-XX	15-22	WR51	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	100	FBP180	Al
42WPFA100-XX	18-26.5	WR42	3/6/10/20/30 /40/50	±1.0	±0.9	1.2	100	FBP220	Al
34WPFA75-XX	22-33	WR34	3/6/10/20/30 /40/50	±1.0	±0.9	1.2	75	FBP260	Al
28WPFA75-XX	26.5-40	WR28	3/6/10/20/30 /40/50/60	±1.0	±0.9	1.2	75	FBP320	Al



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WG Attenuator

5. WG Precision Fixed Attenuator – High Power



Model Information

Example Part Number: 284 WPFA 45 -XX

Waveguide Size: WR284 to WR22

Product Code

Avg. Power (Watts)

Attenuation(dB)

P/N	Freq. (GHz)	EIA WR	Atten. (dB)	Atten. Accuracy (dB)	Atten. Sens. (dB)	VSWR Max.	Avg. Power (W)	Flange	Mat.
284WPFA2400-XX	2.6-3.95	WR284	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	2400	FDP32	Al
284WPFA3500-XX	2.6-3.95	WR284	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	3500	FDP32	Al
229WPFA2000-XX	3.3-4.9	WR229	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	2000	FDP40	Al
229WPFA3000-XX	3.3-4.9	WR229	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	3000	FDP40	Al
229WPFA4000-XX	3.3-4.9	WR229	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	4000	FDP40	Al
187WPFA1500-XX	3.95-5.85	WR187	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	1500	FDP48	Al
187WPFA2000-XX	3.95-5.85	WR187	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	2000	FDP48	Al
187WPFA3000-XX	3.95-5.85	WR187	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	3000	FDP48	Al
159WPFA1300-XX	4.9-7.05	WR159	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	1300	FDP58	Al
159WPFA2000-XX	4.9-7.05	WR159	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	2000	FDP58	Al
159WPFA3000-XX	4.9-7.05	WR159	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	3000	FDP58	Al
137WPFA1000-XX	5.85-8.2	WR137	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	1000	FDP70	Al



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P/N	Freq. (GHz)	EIA WR	Atten. (dB)	Atten. Accuracy (dB)	Atten. Sens. (dB)	VSWR Max.	Avg. Power (W)	Flange	Mat.
137WPFA1500-XX	5.85-8.2	WR137	3/6/10/20/30 /40/50	±0.9	±0.7	1.10	1500	FDP70	Al
112WPFA850-XX	7.05-10	WR112	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	850	FBP84	Al
112WPFA1500-XX	7.05-10	WR112	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	1500	FBP84	Al
90WPFA500-XX	8.2-12.4	WR90	3/6/10/20/30 /40/50/60	±0.9	±0.7	1.15	500	FBP100	Al
90WPFA750-XX	8.2-12.4	WR90	3/6/10/20/30 /40/50/60	±0.9	±0.7	1.15	750	FBP100	Al
90WPFA1100-XX	8.2-12.4	WR90	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	1100	FBP100	Al
90WPFA1700-XX	8.2-12.4	WR90	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	1700	FBP100	Al
75WPFA350-XX	10-15	WR75	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	350	FBP120	Al
75WPFA550-XX	10-15	WR75	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	550	FBP120	Al
75WPFA1000-XX	10-15	WR75	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	1000	FBP120	Al
75WPFA1500-XX	10-15	WR75	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	1500	FBP120	Al
62WPFA300-XX	12.4-18	WR62	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	300	FBP140	Al
62WPFA800-XX	12.4-18	WR62	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	800	FBP140	Al
62WPFA1400-XX	12.4-18	WR62	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	1400	FBP140	Al
51WPFA200-20	15-22	WR51	20	±0.9	±0.7	1.15	200	FBP180	Al
51WPFA260-XX	15-22	WR51	3/6/10/20/30 /40/50	±0.9	±0.7	1.15	260	FBP180	Al
51WPFA700-XX	15-22	WR51	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	700	FBP180	Al
51WPFA1200-XX	15-22	WR51	3/6/10/20/30 /40/50	±0.9	±0.7	1.1	1200	FBP180	Al
42WPFA230-XX	18-26.5	WR42	3/6/10/20/30 /40/50	±1.0	±0.9	1.2	230	FBP220	Al
42WPFA600-XX	18-26.5	WR42	3/6/10/20/30 /40/50	±1.0	±0.9	1.15	600	FBP220	Al
42WPFA1000-XX	18-26.5	WR42	3/6/10/20/30 /40/50	±1.0	±0.9	1.15	1000	FBP220	Al
34WPFA150-XX	22-33	WR34	3/6/10/20/30 /40/50	±1.0	±0.9	1.2	150	FBP260	Al
34WPFA400-XX	22-33	WR34	3/6/10/20/30 /40/50	±1.0	±0.9	1.2	400	FBP260	Al



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P/N	Freq. (GHz)	EIA WR	Atten. (dB)	Atten. Accuracy (dB)	Atten. Sens. (dB)	VSWR Max.	Avg. Power (W)	Flange	Mat.
34WPFA700-XX	22-33	WR34	3/6/10/20/30/40/50	±1.0	±0.9	1.2	700	FBP260	Al
28WPFA125-XX	26.5-40	WR28	3/6/10/20/30/40/50/60	±1.0	±0.9	1.2	125	FBP320	Al
28WPFA150-20	26.5-40	WR28	20	±1.0	±0.9	1.2	150	FBP320	Al
28WPFA300-XX	26.5-40	WR28	3/6/10/20/30/40/50	±1.0	±0.9	1.2	300	FBP320	Al
28WPFA500-XX	26.5-40	WR28	3/6/10/20/30/40/50	±1.0	±0.9	1.2	500	FBP320	Al
22WPFA100-XX	33-50	WR22	3/6/10/20/30/40/50	±2.0	±2.0	1.2	100	FUGP400	Al



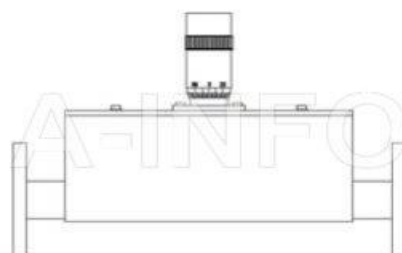
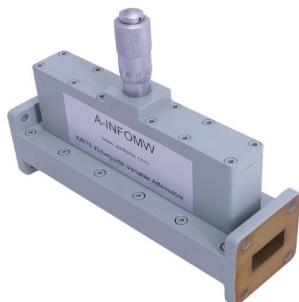
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WG Attenuator

6. WG Variable Attenuator



Model Information

Example Part Number: 75 WVA -30

Waveguide Size: WR187 to WR10

Product Code

Attenuation(dB)

The data is for reference only.

P/N	Freq. (GHz)	EIA WR	Atten. (dB)	VSWR Max.	Avg. Power (W)	Flange	Mat.
284WVA-30	2.6-3.95	WR284	30	1.25	10	FDP32	Al
229WVA-30	3.3-4.9	WR229	30	1.25	10	FDP40	Al
187WVA-30	3.95-5.85	WR187	30	1.25	8	FDP48	Al
159WVA-30	4.9-7.05	WR159	30	1.25	7	FDP58	Al
137WVA-30	5.85-8.2	WR137	30	1.25	6	FDP70	Al
112WVA-30	7.05-10	WR112	30	1.25	4	FBP84	Al
90WVA-30	8.2-12.4	WR90	30	1.25	4	FBP100	Al
75WVA-20	10-15	WR75	20	1.25	2	FBP120	Al
75WVA-30	10-15	WR75	30	1.25	2	FBP120	Al
62WVA-30	12.4-18	WR62	30	1.25	1.5	FBP140	Al
51WVA-30	15-22	WR51	30	1.25	1	FBP180	Al
42WVA-30_Cu	18-26.5	WR42	30	1.2	1	FBP220	Cu
34WVA-30_Cu	22-33	WR42	30	1.25	1	FBP260	Cu
28WVA-30_Cu	26.5-40	WR28	30	1.25	1	FBP320	Cu
28WVA-20_Cu	26.5-40	WR28	20	1.25	1	FBP320	Cu
22WVA-30_Cu	33-50	WR22	30	1.2	1	FUGP400	Cu
19WVA-30_Cu	40-60	WR19	30	1.25	0.5	FUGP500	Cu
15WVA-30_Cu	50-75	WR15	30	1.50	0.5	FUGP620	Cu
12WVA-20_Cu	60-90	WR12	20	1.50	0.5	FUGP740	Cu
12WVA-30_Cu	60-90	WR12	30	1.50	0.5	FUGP740	Cu
10WVA-30_Cu	75-110	WR10	30	1.50	0.3	FUGP900	Cu



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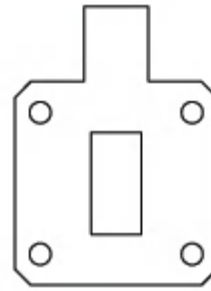
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WG Ferrite Device

WG Ferrite Device

1. WG Isolator



P/N	Freq.(GHz)	EIA WR	I.L.(dB)	Iso. (dB)	VSWR Max	Flange
112WISO-70100-20-200	7.05-10	WR112	0.4	20	1.3	FBP84
90WISO-82124-20-200	8.2-12.4	WR90	0.5	20	1.25	FBP100
75WISO-100150-20-150	10-15	WR75	0.5	20	1.3	FBP120
62WISO-124180-20-100	12.4-18	WR62	0.5	20	1.3	FBP140
51WISO-150220-20-100	15-22	WR51	0.5	20	1.3	FBP180
42WISO-180265-20-50	18-26.5	WR42	0.5	20	1.3	FBP220
34WISO-255270-20-1	25.5-27	WR34	0.40	20	1.25	FBM260
34WISO-255270-20-2	25.5-27	WR34	0.40	20	1.25	FBM260
28WISO-270330-18-1	27-33	WR28	0.60	18	1.40	FBP320
28WISO-340360-18-1	34-36	WR28	0.60	18	1.40	FBP320



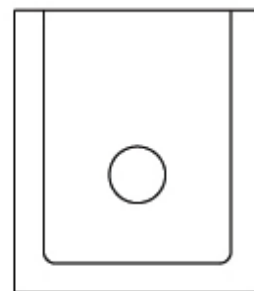
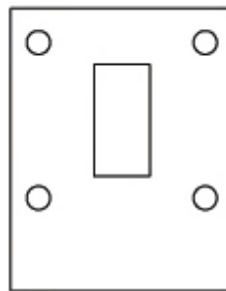
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2. WG Circulator



P/N	Freq. (GHz)	EIA WR	I.L.(dB)	VSWR Max	Iso. (dB)	Flange	Avg. Power (W)
340WCIC-2326-20-250	2.3-2.6	WR340	0.30	1.20	20	FDP26	250
284WCIC-2731-20-1200	2.75-3.1	WR284	0.25	1.25	20	FDP32	1200
187WCIC-4450-20-600	4.4-5	WR187	0.30	1.25	20	FDP48	600
112WCIC-70100-20-200	7.05-10	WR112	0.40	1.25	20	FBP84	200
90WCIC-8999-20-80	8.9-9.9	WR90	0.30	1.20	20	FBP100	80
90WCIC-82124-20-200	8.2-12.4	WR90	0.5	1.25	20	FBP100	200
75WCIC-100150-20-150	10-15	WR75	0.35	1.25	20	FBP120	150
62WCIC-124180-20-100	12.4-18	WR62	0.50	1.25	20	FBP140	100
51WCIC-150220-20-100	15-22	WR51	0.50	1.30	20	FBP180	100
42WCIC-180265-20-50	18-26.5	WR42	0.50	1.30	20	FBP220	50
34WCIC-240270-20-50	24-27	WR34	0.40	1.25	20	FBP260	50
28WCIC-340360-20-2	34-36	WR28	0.60	1.30	20	FBP320	2
22WCIC-394436-20-50	37-45	WR22	0.60	1.30	20	FUGP400	50



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WG Filter

WG Filter

1. WG Filter - Band Pass



General Specification	
Passband Bandwidth	0.5% to 20% of center frequency
Passband Insertion Loss	Less than 1dB (Depending on bandwidth and rejection requirement)
Rejection	20 to 40 dB at center frequency $\pm$ bandwidth
Passband VSWR	1.5 Max.
Ripple in Passband	0.5dB Max.

EIA WR	Passband (GHz)	P/N	Rejection, Min (dB)	I.L. (dB)	VSWR	Flange	Mat.
WR42	21.2-22.45	42LB-BP-21200-22450	30dB@18-19.3GHz &60dB@24.35-25.55GHz	0.8	1.25	FBP220	Al
WR42	22.35-23.6	42LB-BP-22350-23600	30dB@18-20.45GHz &60dB@25.5-26GHz	0.8	1.25	FBP220	Al
WR42	25.5-27.0	42LB-BP-25500-27000	30dB@23.5-29GHz &60dB@21.5-31GHz	0.5	1.2	FBP220	Al
WR28	28.6-29.8	28LB-BP-28600-29800	70dB@26.5-26.95GHz &70dB@31.45GHz	0.99	1.5	FBP320	Al
WR28	29.411-30.611	28LB-BP-29411-30611_Cu	70dB@26.5-27.761GHz &70dB@32.261GHz	1.0	1.5	FBP320	Al
WR28	29.5-30.0	28LB-BP-29500-30000	50dB@28.55GHz	1.2	1.2	FBP320	Al
WR28	30.0 -31.0	28LB-BP-30000-31000_Cu	50dB@26.5-29.05GHz 50dB@31.95GHz	1.2	1.5	FBP320	Al
WR28	34.0 -36.0	28LB-BP-34000-36000_Cu	60dB@26.5-32.445GHz 60dB@38.5-40GHz	0.5	2.0	FBP320	Al
WR28	37.0-40.0	28LB-BP-37000-40000	30dB@10-36GHz &60dB@41-45GHz	2.0	2.0	FBP320	Al



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WG Filter

EIA WR	Passband (GHz)	P/N	Rejection, Min (dB)	I.L. (dB)	VSWR	Flange	Mat.
WR42	21.2-22.45	42LB-BP-21200-22450	30dB@18-19.3GHz &60dB@24.35-25.55GHz	0.8	1.25	FBP220	Al
WR42	22.35-23.6	42LB-BP-22350-23600	30dB@18-20.45GHz &60dB@25.5-26GHz	0.8	1.25	FBP220	Al
WR42	25.5-27.0	42LB-BP-25500-27000	30dB@23.5-29GHz &60dB@21.5-31GHz	0.5	1.2	FBP220	Al
WR28	28.6-29.8	28LB-BP-28600-29800	70dB@26.5-26.95GHz &70dB@31.45GHz	0.99	1.5	FBP320	Al
WR28	29.411-30.611	28LB-BP-29411-30611_Cu	70dB@26.5-27.761GHz &70dB@32.261GHz	1.0	1.5	FBP320	Cu
WR28	29.5-30.0	28LB-BP-29500-30000	50dB@28.55GHz	1.2	1.2	FBP320	Al
WR28	30.0 -31.0	28LB-BP-30000-31000_Cu	50dB@26.5-29.05GHz 50dB@31.95GHz	1.2	1.5	FBP320	Cu
WR28	34.0 -36.0	28LB-BP-34000-36000_Cu	60dB@26.5-32.445GHz 60dB@38.5-40GHz	0.5	2.0	FBP320	Cu
WR28	37.0-40.0	28LB-BP-37000-40000	30dB@10-36GHz &60dB@41-45GHz	2.0	2.0	FBP320	Al
WR10	89.0 -99.0	10LB-BP-89000-99000_Cu	30dB@75-87GHz &50dB@30-102GHz	3.0	2.0	FUGP900	Cu



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WG Filter

2. WG Filter - Low Pass



EIA WR	Passband (GHz)	P/N	Rejection, Min (dB)	I.L. (dB)	VSWR	Flange	Mat.
WR284	2.6 - 3.95	284LB-LP-2600-3950	40dB@2.6GHz &40dB@5.2-9.89GHz	0.5	1.5	WR284	Al
WR229	3.3 - 4.9	229LB-LP-3300-4900	40dB@3.3GHz &40dB@6.6-12.25GHz	0.5	1.5	WR229	Al
WR187	3.95 - 5.85	187LB-LP-3950-5850	40dB@3.95GHz &40dB@7.9-14.63GHz	0.5	1.5	WR187	Al
WR159	4.9 - 7.05	159LB-LP-4900-7050	40dB@4.9GHz &40dB@9.8-17.63GHz	0.5	1.5	WR159	Al
WR137	5.85 - 8.2	137LB-LP-5850-8200	40dB@5.85GHz &40dB@11.7-20.5GHz	0.5	1.5	WR137	Al
WR112	7.05 - 10.0	112LB-LP-7050-1000	40dB@7.05GHz &40dB@14.1-25GHz	0.5	1.5	WR112	Al
WR90	8.2 - 12.4	90LB-LP-8200-12400	40dB@8.2GHz &40dB@16.4-31GHz	0.5	1.5	WR90	Al
WR75	10.0 - 12.5	75LB-LP-10000-12500	30dB@10GHz &30dB@14-15GHz	0.4	1.4	WR75	Al
WR75	10.0 - 15.0	75LB-LP-10000-15000	40dB@10GHz &40dB@20-37.5GHz	0.5	1.5	WR75	Al
WR62	12.4 - 18.0	62LB-LP-12400-18000	40dB@12.4GHz &40dB@24.8-45GHz	0.8	1.5	WR62	Al
WR51	15.0 - 22.0	51LB-LP-15000-22000	40dB@15GHz &40dB@30-55GHz	0.8	1.5	WR51	Cu
WR42	18.0 - 26.5	42LB-LP-18000-26500	40dB@18GHz &40dB@36-66.25GHz	1.0	1.5	WR42	Cu
WR34	22.0 - 33.0	34LB-LP-22000-33000	40dB@22GHz &40dB@44-82.5GHz	1.0	1.5	WR34	Cu
WR28	26.5 - 40.0	28LB-LP-26500-40000_Cu	40dB@26.5GHz &40dB@53-100GHz	1.0	1.5	WR28	Cu



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WG Filter

3. WG Filter - High Pass



EIA WR	Passband (GHz)	P/N	90% Cutoff Frequency (GHz)	Rej. (dB) Min.	I.L. (dB)	VSWR	Flange	Mat.
WR284	2.60 - 3.95	284LB-HP-2600-3950	2.34	50	0.5	1.5	FDP32	Al
WR229	3.30 - 4.90	229LB-HP-3300-4900	2.97	50	0.5	1.5	FDP40	Al
WR187	3.95 - 5.85	187LB-HP-3950-5850	3.56	50	0.5	1.5	FDP48	Al
WR159	4.90 - 7.05	159LB-HP-4900-7050	4.41	50	0.5	1.5	FDP58	Al
WR137	5.85 - 8.20	137LB-HP-5850-8200	5.27	50	0.5	1.5	FDP70	Al
WR112	7.05 - 10	112LB-HP-7050-1000	6.35	50	0.5	1.5	FBP84	Al
WR90	8.20 - 12.40	90LB-HP-8200-12400	7.38	45	0.5	1.5	FBP100	Al
WR75	10 - 12.50	75LB-HP-10000-15000	9.00	45	0.5	1.5	FBP120	Al
WR62	12.40 - 18	62LB-HP-12400-18000	11.16	45	0.8	1.5	FBP140	Al
WR51	15 - 22	51LB-HP-15000-22000	13.50	45	0.8	1.5	FBP180	Cu
WR42	18 - 26.50	42LB-HP-18000-26500	16.20	45	1.0	1.5	FBP220	Cu
WR34	22 - 33	34LB-HP-22000-33000	19.80	45	1.0	1.5	FBP260	Cu
WR28	26.50 - 40	28LB-HP-26500-40000	23.85	45	1.0	1.5	FBP320	Cu



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Flexible WG

Flexible WG

1. Flexible WG - Non-twistable



Order Information			
P/N	430	WF	XX
Explanation	WR Size	Product Code	Length(mm)
The Length is customized.			

EIA WR	Freq. (GHz)	P/N	VSWR Max.	Attenuation (dB/m)	Power Handling CW, (W)	Flange	Mat.
WR340	2.2-3.3	340WF-XX	1.15	0.15	20000	FDP26	Cu
WR284	2.6-3.95	284WF-XX	1.15	0.16	10000	FDP32/ FDM32/ FAP32	Cu
WR229	3.3-4.9	229WF-XX	1.15	0.18	8000	APF229B	Cu
WR187	3.95-5.85	187WF-XX	1.15	0.24	6500	FDM48	Cu
WR112	7.05-10	112WF-XX	1.15	0.35	4000	FDP84/ FBP84	Cu
WR90	8.2-12.4	90WF-XX	1.15	0.45	2000	FBP100/ FBE100/ FBM100	Cu
WR75	10-15	75WF-380_BMBM	1.15	0.65	1500	FBM120	Cu
WR75	10-15	75WF-500	1.20	0.65	1500	FBP120	Cu
WR62	12.4-18	62WF-XX	1.20	0.74	1000	FBM140/ FBP140/ FDM140	Cu
WR42	18-26.5	42WF-XX	1.20	1.40	300	FBP220	Cu
WR28	26.5-40	28WF-100	1.40	2.40	150	FBP320	Cu
WR28	26.5-40	28WF-300	1.30	2.40	150	FBP320	Cu
WR28	26.5-40	28WF-400	1.30	2.40	150	FBP320	Cu
WR28	26.5-40	28WF-600	1.40	2.40	150	FBP320	Cu



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Flexible WG

2. Flexible WG - Twistable



Order Information			
P/N	137	WFT	XX
Explanation	WR Size	Product Code	Length(mm)
The Length is customized.			

The data is for reference only.

EIA WR	Freq. (GHz)	P/N	VSWR Max.	Attenuation (dB/m)	Power Handling, CW, (W)	Flange	Mat.
WR137	5.85-8.2	137WFT-XX	1.15	0.30	2000	FDP70/FDM70	Cu
WR112	7.05-10	112WFT-800_EPEP	1.15	0.40	1200	FEP84	Cu
WR90	8.2-12.4	90WFT-XX	1.15	0.45	960	FBP100/FBM100	Cu
WR75	10-15	75WFT-XX	1.20	0.65	750	FBP120/FBM120	Cu
WR62	12.4-18	62WFT-XX	1.20	0.95	400	FBP140	Cu
WR51	15-22	51WFT-XX	1.20	1.0	200	FBP18	Cu
WR42	18-26.5	42WFT-XX	1.25	1.20	100	FBP220	Cu
WR28	26.5-40	28WFT-XX	1.30	2.40	75	FBP320	Cu
WRD750	7.5-18	750DRWFT-XX	1.50	2.60	-	FPWRD750D24	Cu
WRD650	6.5-18	650DRWFT-XX	1.50	1.65	-	FPWRD650D28	Cu



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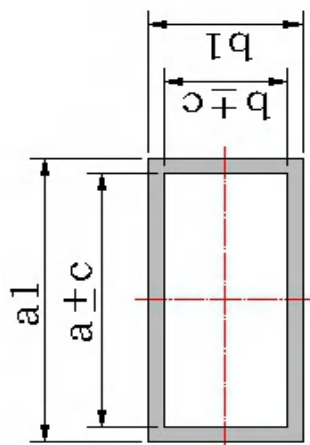
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Regular WG Information

Regular Waveguide Information

1. Rectangular Waveguide Information

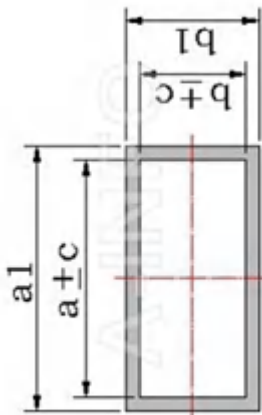


BJ	IEC 153 R	EIA WR	Frequency Range(GHz)	Inside Dimension			Wall Thickness (nominal)(mm)	Outside Dimension(mm)			Attenuation(dB/m)	
				Width a(mm)	Height b(mm)	Std. Tol. +/-c(mm)		Width a1(mm)	Height b1(mm)	Std. Tol. +/-mm)	Freq. (GHz)	Theoretical Max.
BJ3	R3	WR2300	0.32-0.49	584.2	292.1	-	-	-	-	-	0.385	0.00078
BJ4	R4	WR2100	0.35-0.53	533.4	266.7	-	-	-	-	-	0.422	0.0009
BJ5	R5	WR1800	0.41-0.62	457.2	228.6	-	-	-	-	-	0.49	0.00113
BJ6	R6	WR1500	0.49-0.75	381	190.5	-	-	-	-	-	0.59	0.00149
BJ8	R8	WR1150	0.64-0.96	292.1	146.05	-	-	-	-	-	0.77	0.00221
BJ9	R9	WR975	0.75-1.12	247.65	123.82	-	-	-	-	-	0.91	0.00283
BJ12	R12	WR770	0.96-1.45	195.58	97.79	-	-	-	-	-	1.15	0.00405
BJ14	R14	WR650	1.12-1.70	165.1	82.55	0.33	2.030	169.16	86.61	0.2	1.36	0.00522
BJ18	R18	WR510	1.45-2.20	129.54	64.77	0.26	2.030	133.6	68.83	0.2	1.74	0.00748
BJ22	R22	WR430	1.70-2.60	109.22	54.61	0.22	2.030	113.28	58.67	0.2	2.06	0.00967
BJ26	R26	WR340	2.20-3.30	86.36	43.18	0.17	2.030	90.42	47.24	0.17	2.6	0.00138
BJ32	R32	WR284	2.60-3.95	72.14	34.04	0.14	2.030	76.2	38.1	0.14	3.12	0.0188
BJ40	R40	WR229	3.30-4.90	58.17	29.08	0.12	1.625	61.42	32.33	0.12	3.87	0.0249
BJ48	R48	WR187	3.95-5.85	47.549	22.149	0.095	1.625	50.8	25.4	0.1	4.73	0.0354
BJ58	R58	WR159	4.90-7.05	40.386	20.193	0.081	1.625	43.64	23.44	0.08	5.57	0.043
BJ70	R70	WR137	5.85-8.20	34.849	15.799	0.07	1.625	38.1	19.05	0.08	6.45	0.0575
BJ84	R84	WR112	7.05-10.0	28.499	12.624	0.057	1.625	31.75	15.88	0.05	7.89	0.0791



Regular WG Information

Regular Waveguide Information



BJ	IEC 153 R	EIA WR	Frequency Range(GHz)	Inside Dimension			Wall Thickness (nominal)(mm)	Outside Dimension(mm)			Attenuation(dB/m)		
				Width a(mm)	Height b(mm)	Std. Tol. +/- c(mm)		Width a1(mm)	Height b1(mm)	Std. Tol. +/- (mm)	Freq. (GHz)	Theoretical	Max.
BJ100	R100	WR90	8.20-12.4	22.86	10.16	0.046	1.270	25.4	12.7	0.05	9.84	0.11	0.103
BJ120	R120	WR75	10.0-15.0	19.05	9.525	0.038	1.270	21.59	12.06	0.05	11.8	0.133	0.143
BJ140	R140	WR62	12.4-18.0	15.799	7.899	0.031	1.015	17.83	9.93	0.05	14.2	0.176	-
BJ180	R180	WR51	15.0-22.0	12.954	6.477	0.026	1.015	14.99	8.51	0.05	17.4	0.236	-
BJ220	R220	WR42	18.0-26.5	10.668	4.318	0.021	1.015	12.7	6.35	0.05	21.1	0.368	-
BJ260	R260	WR34	22.0-33.0	8.636	4.318	0.02	1.015	10.67	6.35	0.05	26	0.436	-
BJ320	R320	WR28	26.5-40.0	7.112	3.556	0.02	1.015	9.14	5.59	0.05	31.6	0.583	-
BJ400	R400	WR22	33.0-50.0	5.69	2.845	0.02	1.015	7.72	4.88	0.05	39.5	0.815	-
BJ500	R500	WR19	40.0-60.0	4.775	2.388	0.02	1.015	6.81	4.42	0.05	47.1	1.058	-
BJ620	R620	WR15	50.0-75.0	3.759	1.88	0.02	1.015	5.79	3.91	0.05	59.8	1.52	-
BJ740	R740	WR12	60.0-90.0	3.0988	1.5494	0.0127	1.015	5.13	3.58	0.05	72.6	2.02	-
BJ900	R900	WR10	75.0-110.0	2.54	1.27	0.0127	1.015	4.57	3.3	0.05	88.5	2.73	-
BJ1200	R1200	WR8	90.0-140.0	2.032	1.016	0.0076	0.760	3.556	2.54	0.025	110.7	3.81	-
BJ1400	R1400	WR6	110.0-170.0	1.651	0.8255	0.0064	0.760	3.175	2.35	0.025	136.2	5.21	-
BJ1800	R1800	WR5	140.0-220.0	1.2954	0.6477	0.0064	0.760	2.819	2.172	0.025	173.6	7.49	-
BJ2200	R2200	WR4	170.0-260.0	1.0922	0.5461	0.0051	0.760	2.616	2.07	0.025	205.9	9.68	-
BJ2600	R2600	WR3	220.0-325.0	0.8636	0.4318	0.0051	0.760	2.388	1.956	0.025	260.2	13.76	-

Regular WG Information

2. Standard Circular Waveguide Information

BY	IEC	EIA WC	Frequency Range GHz	Cutoff Frequency GHz	Internal Diameter	
					mm	inch
BY8	C8	992	0.803~1.100	0.698	251.84	9.91
BY10	C10	847	0.939~1.290	0.817	215.14	8.47
BY12	C12	724	1.100~1.510	0.957	183.77	7.24
BY14	C14	618	1.290~1.760	1.12	157	6.18
BY16	C16	528	1.510~2.070	1.311	134.11	5.28
BY18	C18	451	1.760~2.420	1.534	114.58	4.51
BY22	C22	385	2.070~2.830	1.796	97.87	3.85
BY25	C25	329	2.420~3.310	2.102	83.62	3.29
BY30	C30	281	2.830~3.880	2.461	71.42	2.81
BY35	C35	240	3.310~4.540	2.88	61.04	2.40
BY40	C40	205	3.890~5.330	3.381	51.99	2.05
BY48	C48	175	4.540~6.230	3.955	44.45	1.75
BY56	C56	150	5.300~7.270	4.614	38.1	1.50
BY65	C65	128	6.210~8.510	5.402	32.537	1.28
BY76	C76	109	7.270~9.970	6.326	27.788	1.09
BY89	C89	94	8.490~11.600	7.377	23.825	0.94
BY104	C104	80	9.970~13.700	8.685	20.244	0.80
BY120	C120	69	11.600~15.900	10.057	17.415	0.69
BY140	C140	59	13.400~18.400	11.649	15.088	0.59
BY165	C165	50	15.900~21.800	13.842	12.7	0.50
BY190	C190	44	18.200~24.900	15.794	11.125	0.44
BY220	C220	38	21.200~29.100	18.446	9.525	0.38
BY255	C255	33	24.300~33.200	21.103	8.331	0.33
BY290	C290	28	28.300~38.800	24.62	7.137	0.28
BY330	C330	25	31.800~43.000	27.683	6.35	0.25
BY380	C380	22	36.400~49.800	31.617	5.563	0.22
BY430	C430	19	42.400~58.100	36.776	4.775	0.19
BY495	C495	17	46.300~63.500	40.227	4.369	0.17
BY580	C580	14	56.600~77.500	49.103	3.581	0.14
BY660	C660	13	63.500~87.200	55.28	3.175	0.13
BY765	C765	11	72.700~99.700	63.462	2.769	0.11
BY890	C890	9	84.800~116.000	73.552	2.388	0.09

Flange Information (mm)

Standard Flange Information

1. Standard Flange Information

International Standard Waveguide	A Type			B Type			C Type		D Type		E Type	LD Type		UG
	FAP	FAM	FAE	FBP	FBM	FBE	FCP	FCM	FDP	FDM	FEP	LFDP	LFDM	FUGP
WR2300									FDP3					
WR2100									FDP4					
WR1800									FDP5					
WR1500									FDP6					
WR1150									FDP8					
WR975									FDP9					
WR770									FDP12					
WR650									FDP14	FDM14		LFDP14	LFDM14	
WR510									FDP18	FDM18		LFDP18	LFDM18	
WR430									FDP22	FDM22		LFDP22	LFDM22	
WR340									FDP26	FDM26		LFDP26	LFDM26	
WR284	FAP32	FAM32	FAE32						FDP32	FDM32	FEP32	LFDP32	LFDM32	
WR229	FAP40	FAM40	FAE40						FDP40	FDM40	FEP40	LFDP40	LFDM40	
WR187	FAP48	FAM48	FAE48						FDP48	FDM48	FEP48	LFDP48	LFDM48	
WR159	FAP58	FAM58	FAE58						FDP58	FDM58	FEP58	LFDP58	LFDM58	
WR137	FAP70	FAM70	FAE70						FDP70	FDM70	FEP70	LFDP70	LFDM70	
WR112				FBP84	FBM84	FBE84			FDP84	FDM84	FEP84			
WR90				FBP100	FBM100	FBE100			FDP100	FDM100	FEP100			
WR75				FBP120	FBM120	FBE120			FDP120	FDM120				
WR62				FBP140	FBM140	FBE140			FDP140	FDM140				
WR51				FBP180	FBM180	FBE180			FDP180	FDM180				
WR42				FBP220	FBM220	FBE220	FCP220	FCM220						
WR34				FBP260	FBM260	FBE260	FCP260	FCM260						
WR28				FBP320	FBM320	FBE320	FCP320	FCM320						
WR22	FAP400	FAM400					FCP400	FCM400						FUGP400
WR19	FAP500	FAM500					FCP500	FCM500						FUGP500
WR15	FAP620	FAM620												FUGP620
WR12	FAP740	FAM740												FUGP740
WR10	FAP900	FAM900												FUGP900
WR8	Refer Precision Flange Information													
WR6	Refer Precision Flange Information													
WR5	Refer Precision Flange Information													
WR4	Refer Precision Flange Information													
WR3	Refer Precision Flange Information													

Flange Information (mm)

2. Waveguide Flange Equivalent

GB 11449-1989	IEC Std. Flange	UG Flange
FAE	CAR	-
FAM	PAR	-
FAP	UAR	-
FBE	CBR	-
FBM	PBR	-
FBP	UBR	-
FCM	PCR	-
FCP	VCR	-
FDM	PDR	-
FDP	UDR	-
FEP	UER	-
FUGP400	-	UG-383/U
FUGP500	-	UG-383/U-M
FUGP620	-	UG-385/U
FUGP740	-	UG-387/U
FUGP900	-	UG-387/U-M



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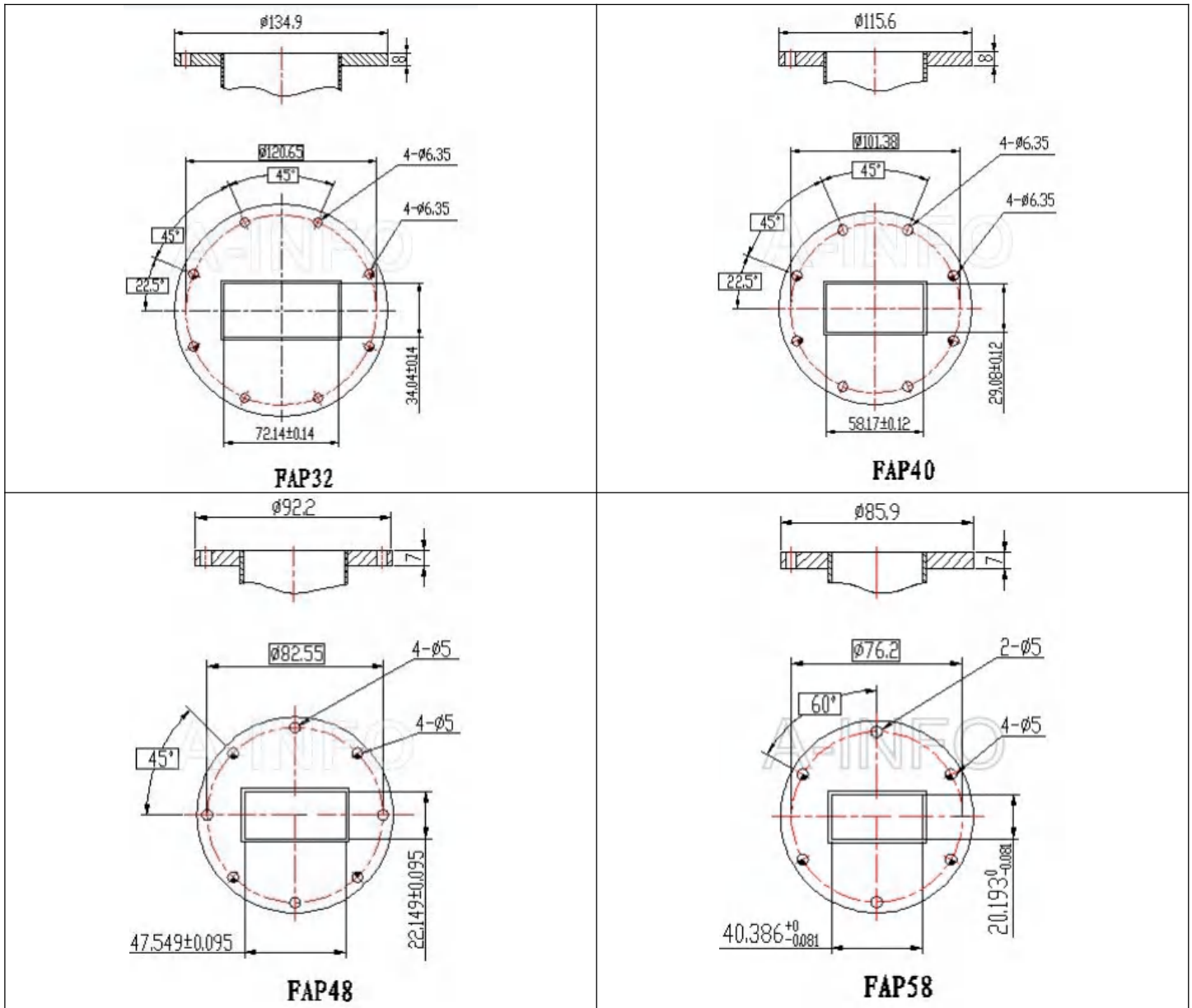
9810138894

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Flange Information (mm)

3. Flange Drawing

3.1 A Type Flange (FAP, FAM, FAE)



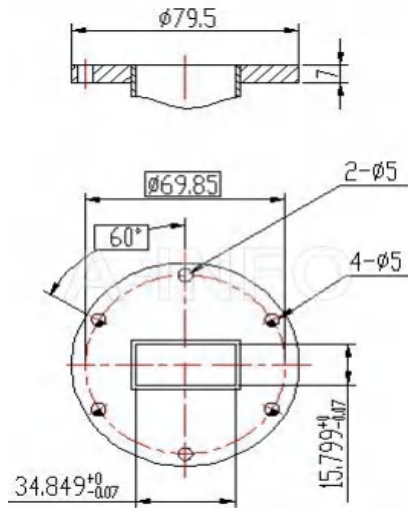


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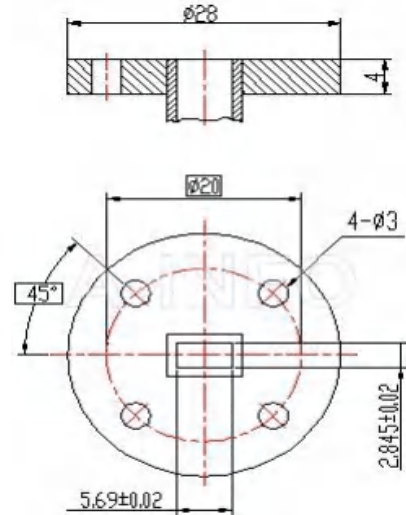
☎ 9810138894

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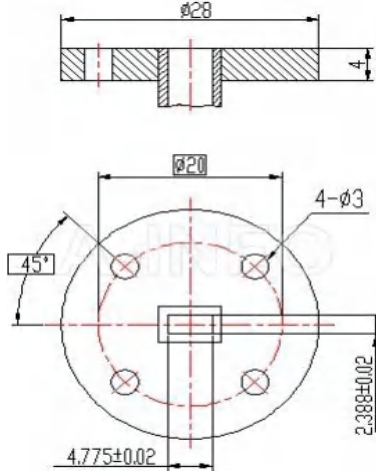
Flange Information (mm)



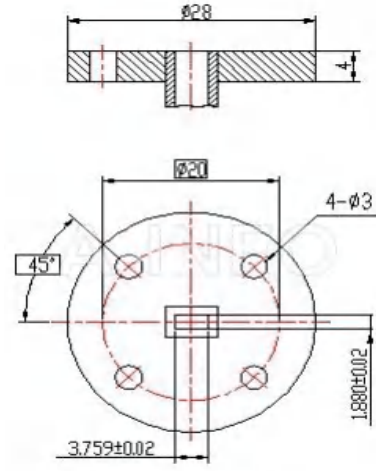
FAP70



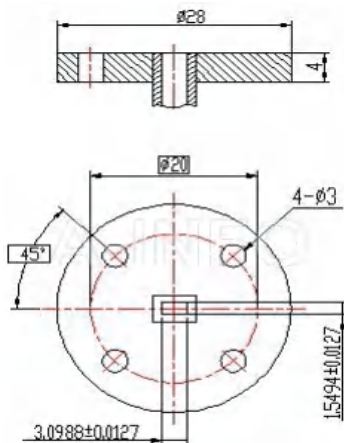
FAP400



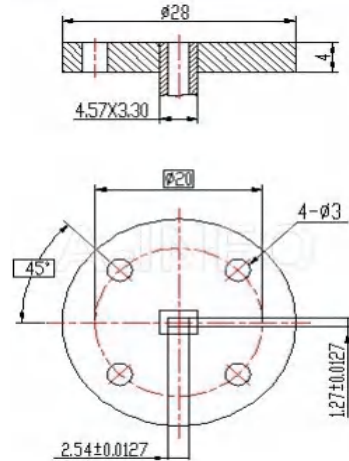
FAP500



FAP620



FAP740



FAP900

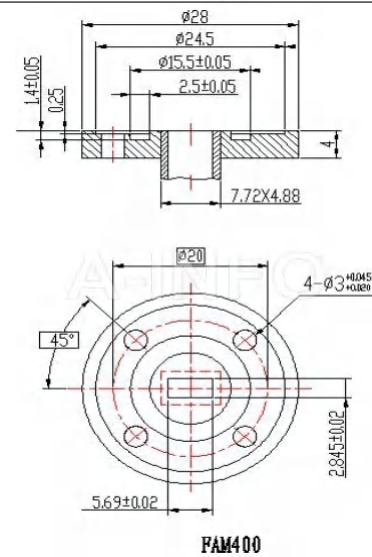
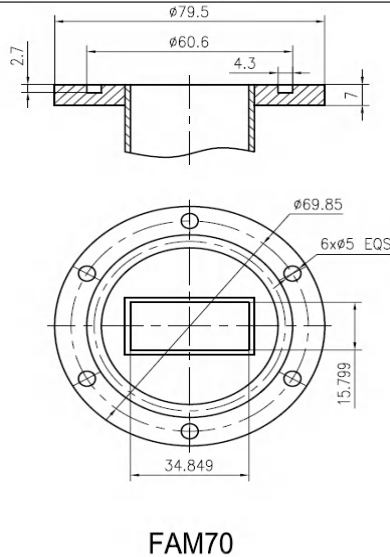
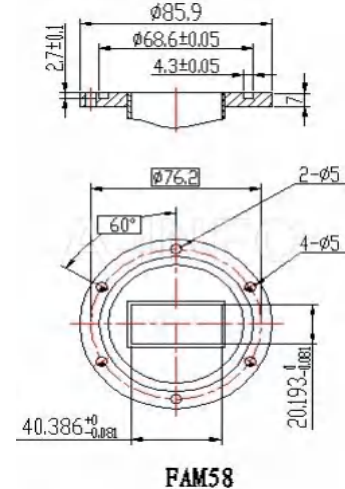
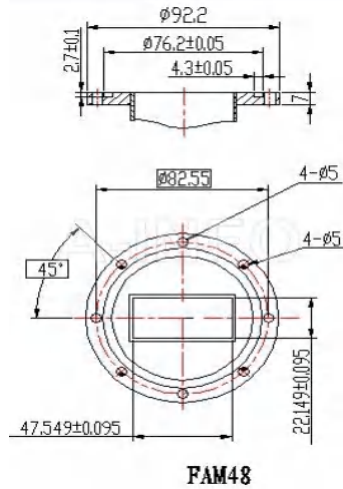
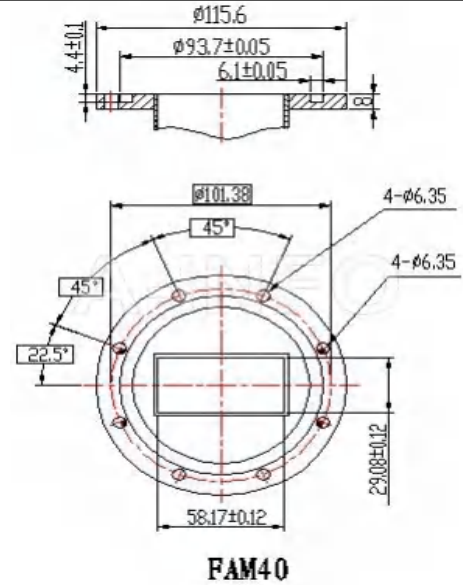
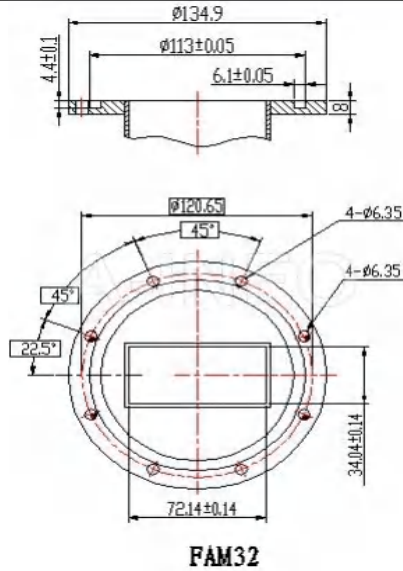


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Flange Information (mm)



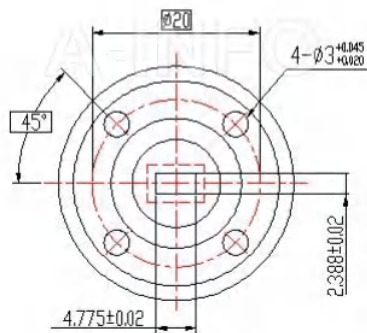
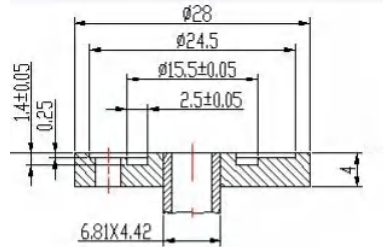


✉ pradeep@rfconnector.in

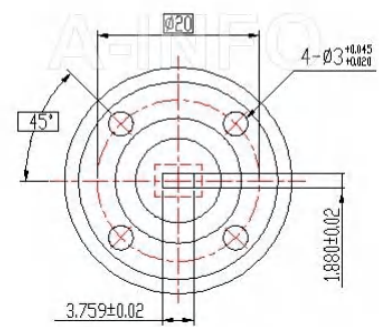
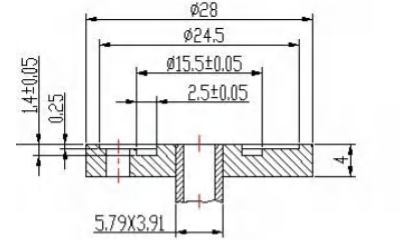
☎ 9810138894

🌐 www.synergytpl.com

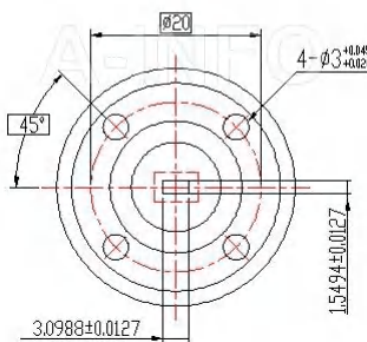
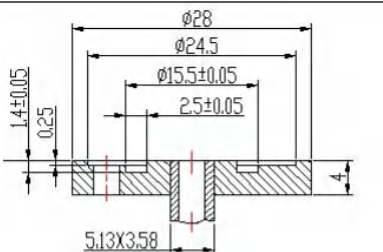
Flange Information (mm)



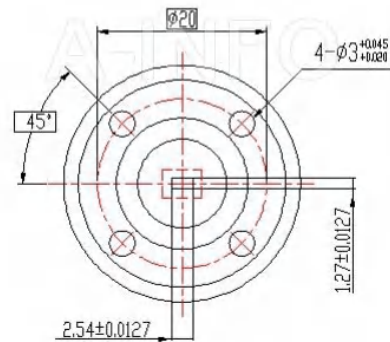
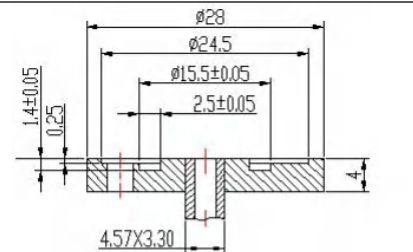
FAM500



FAM620



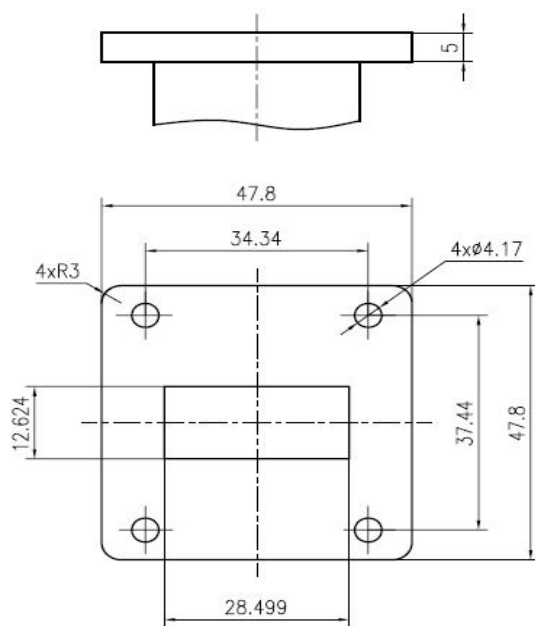
FAM740



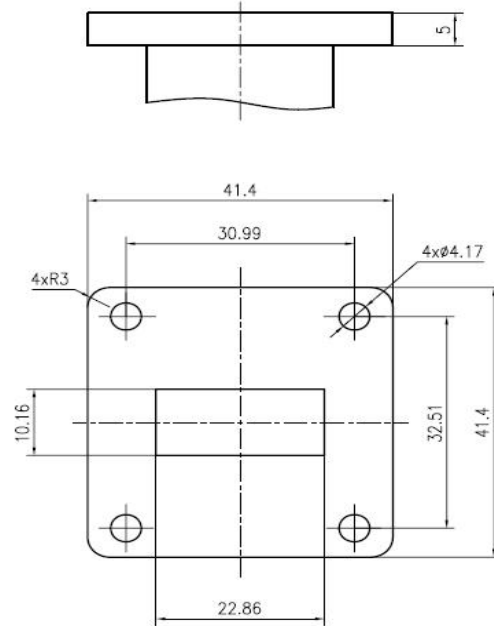
FAM900

Flange Information (mm)

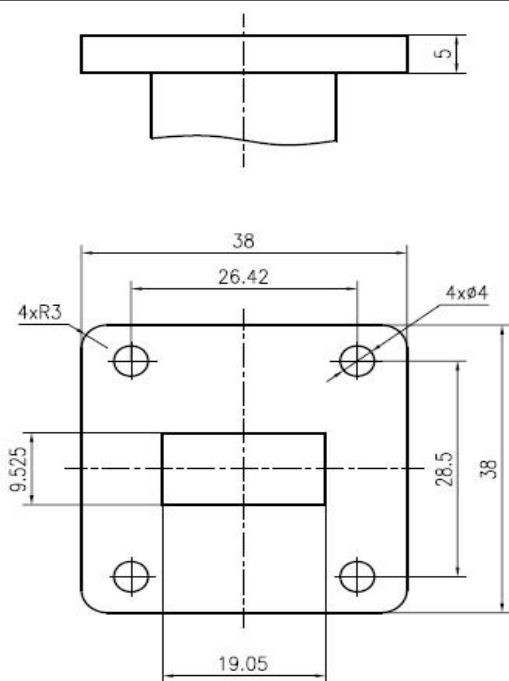
3.2 B Type Flange (FBP, FBM, FBE)



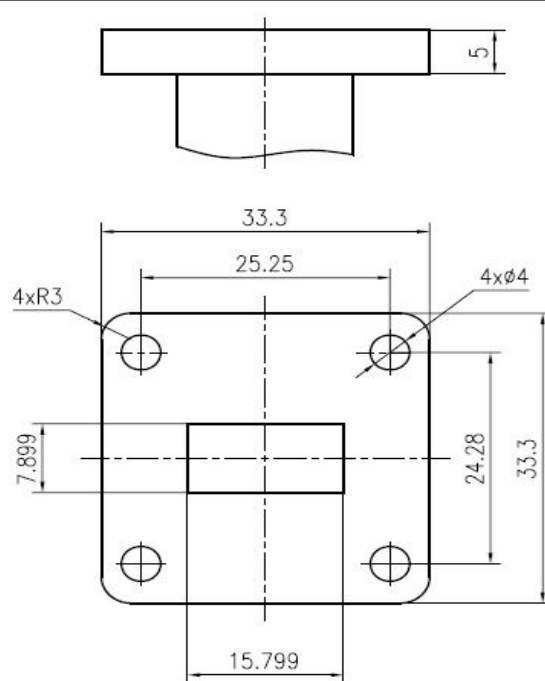
FBP84



FBP100



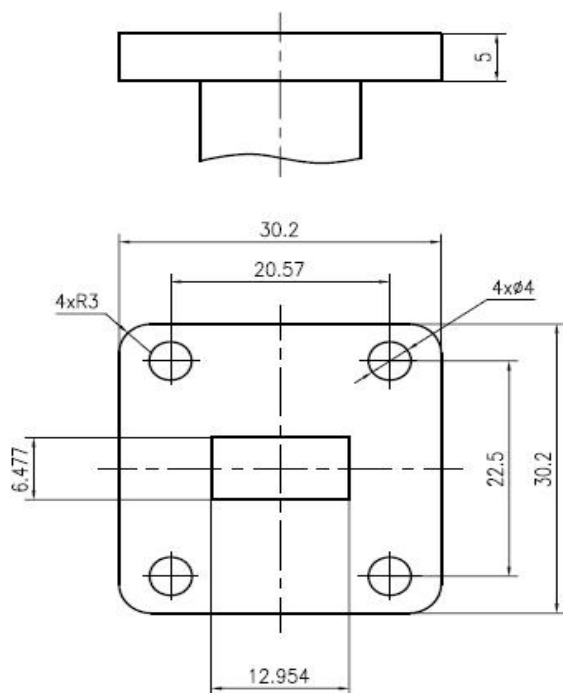
FBP120



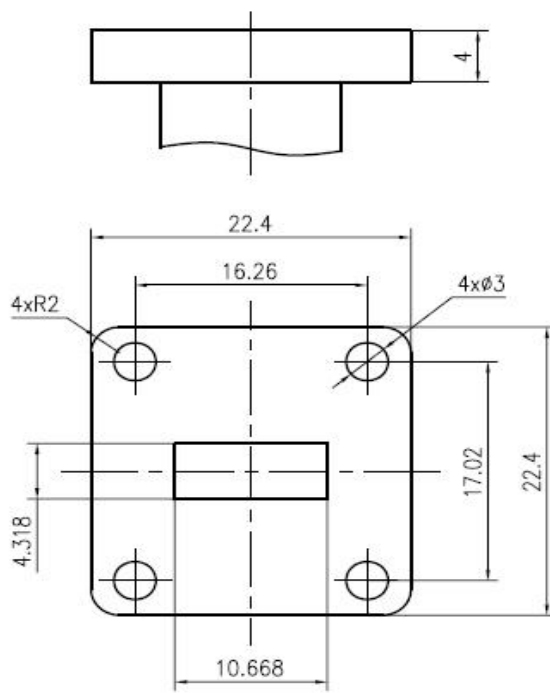
FBP140



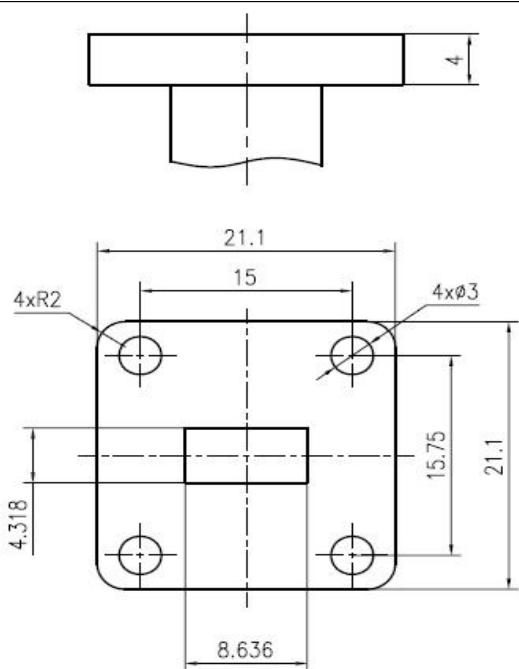
Flange Information (mm)



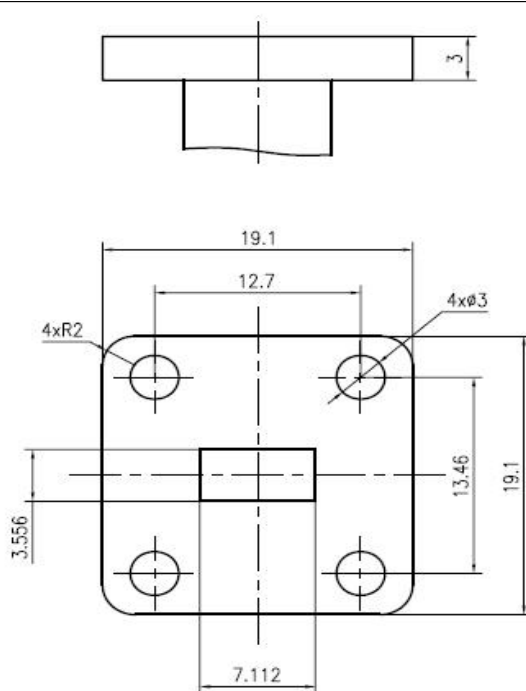
FBP180



FBP220



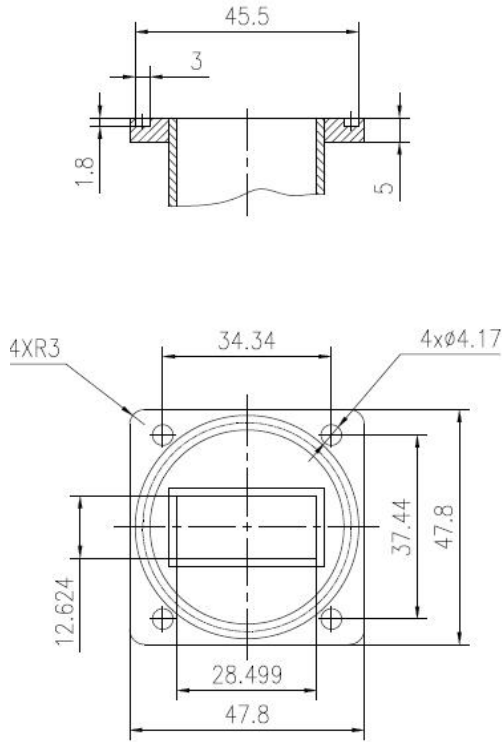
FBP260



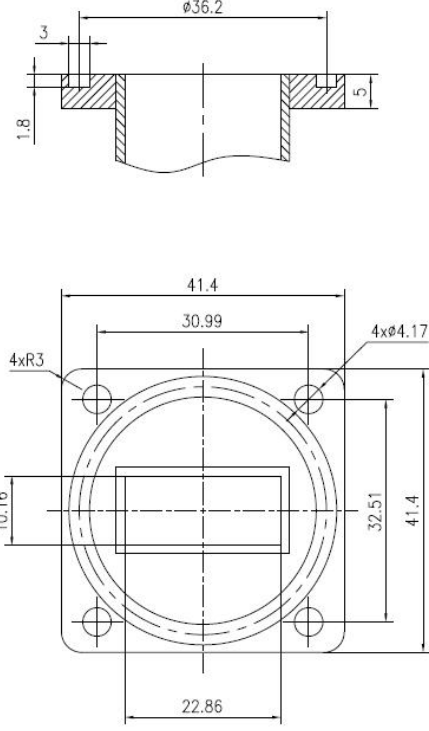
FBP320



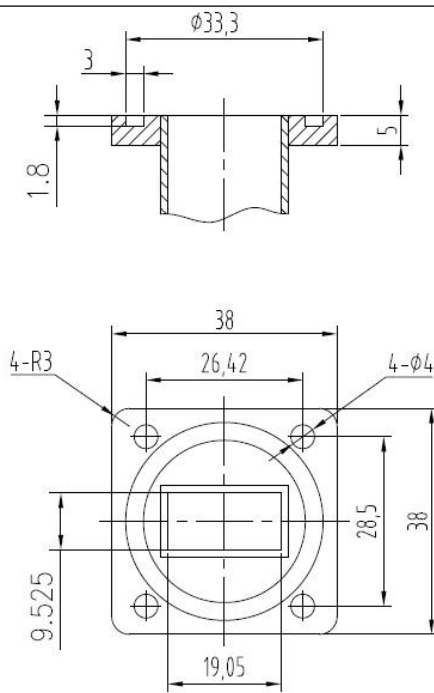
Flange Information (mm)



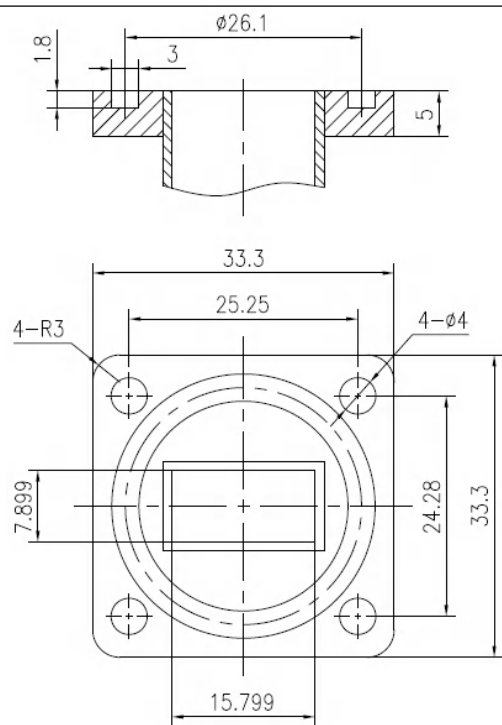
FBM84



FBM100



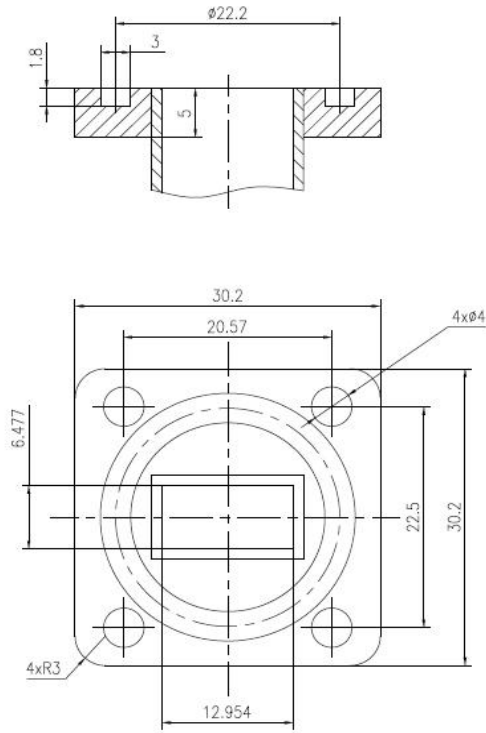
FBM120



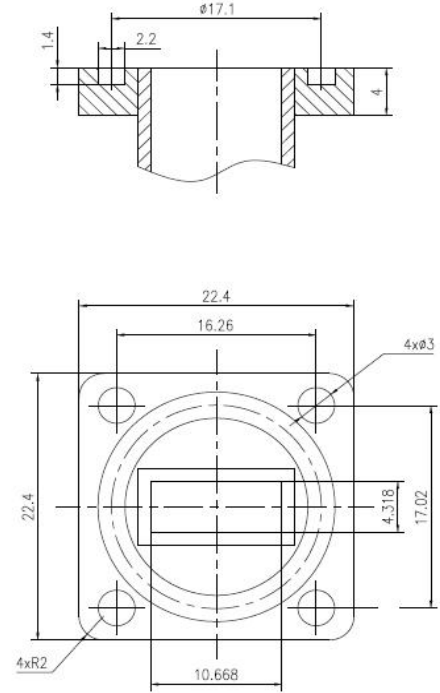
FBM140



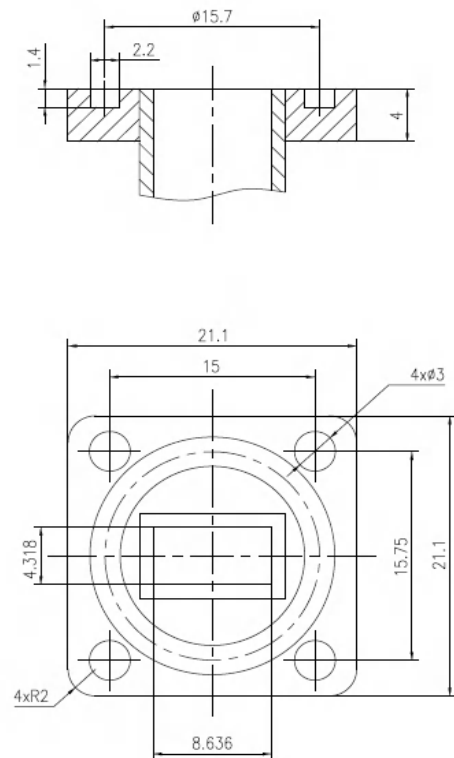
Flange Information (mm)



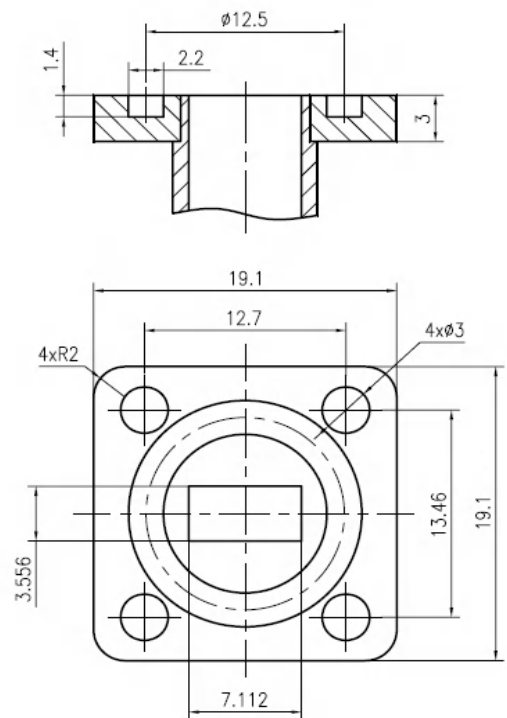
FBM180



FBM220



FBM260



FBM320

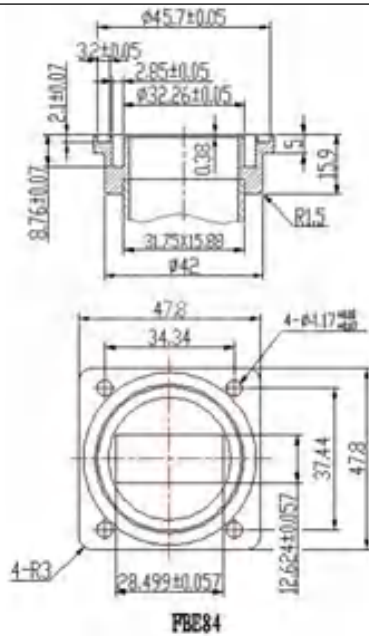


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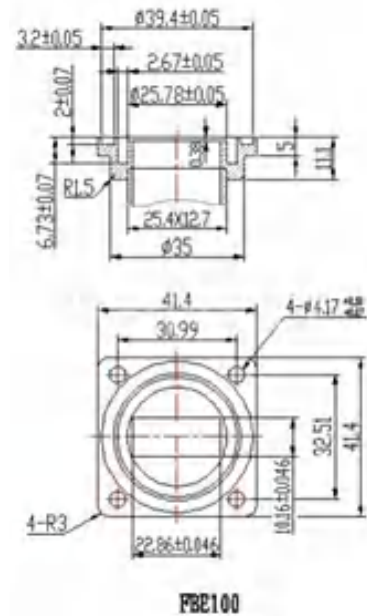
9810138894

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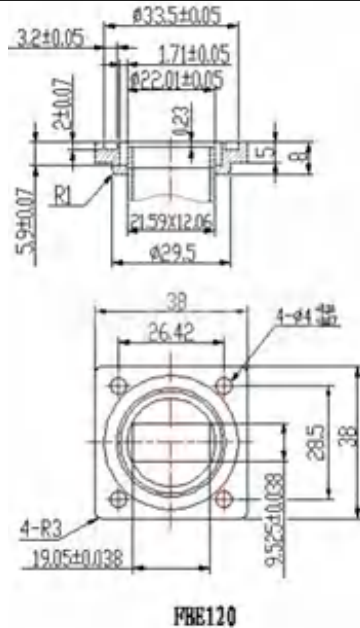
Flange Information (mm)



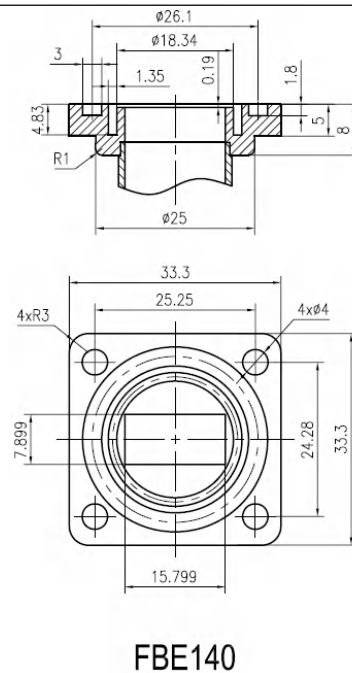
FBE84



FBE100

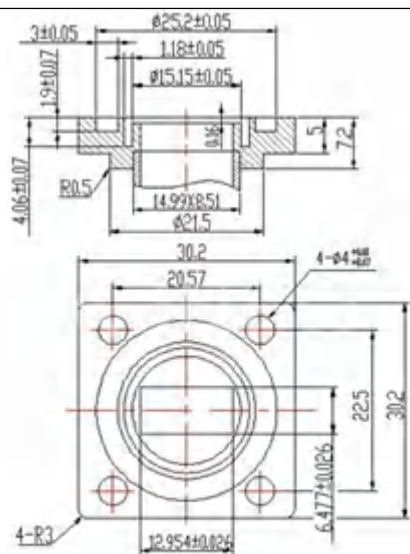


FBE120

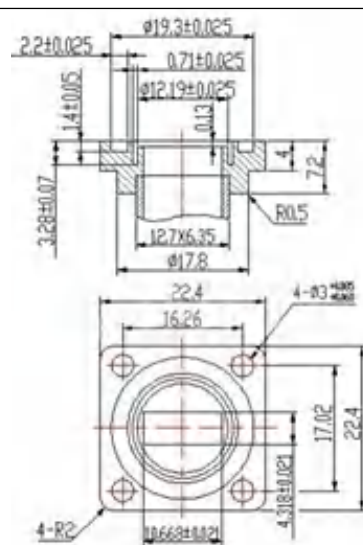


FBE140

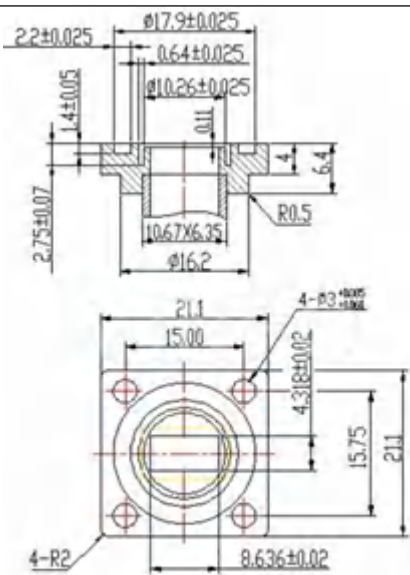
Flange Information (mm)



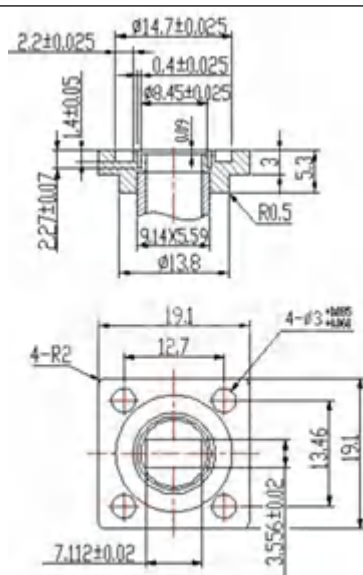
FBE180



FBE220



FBE260



FBE320



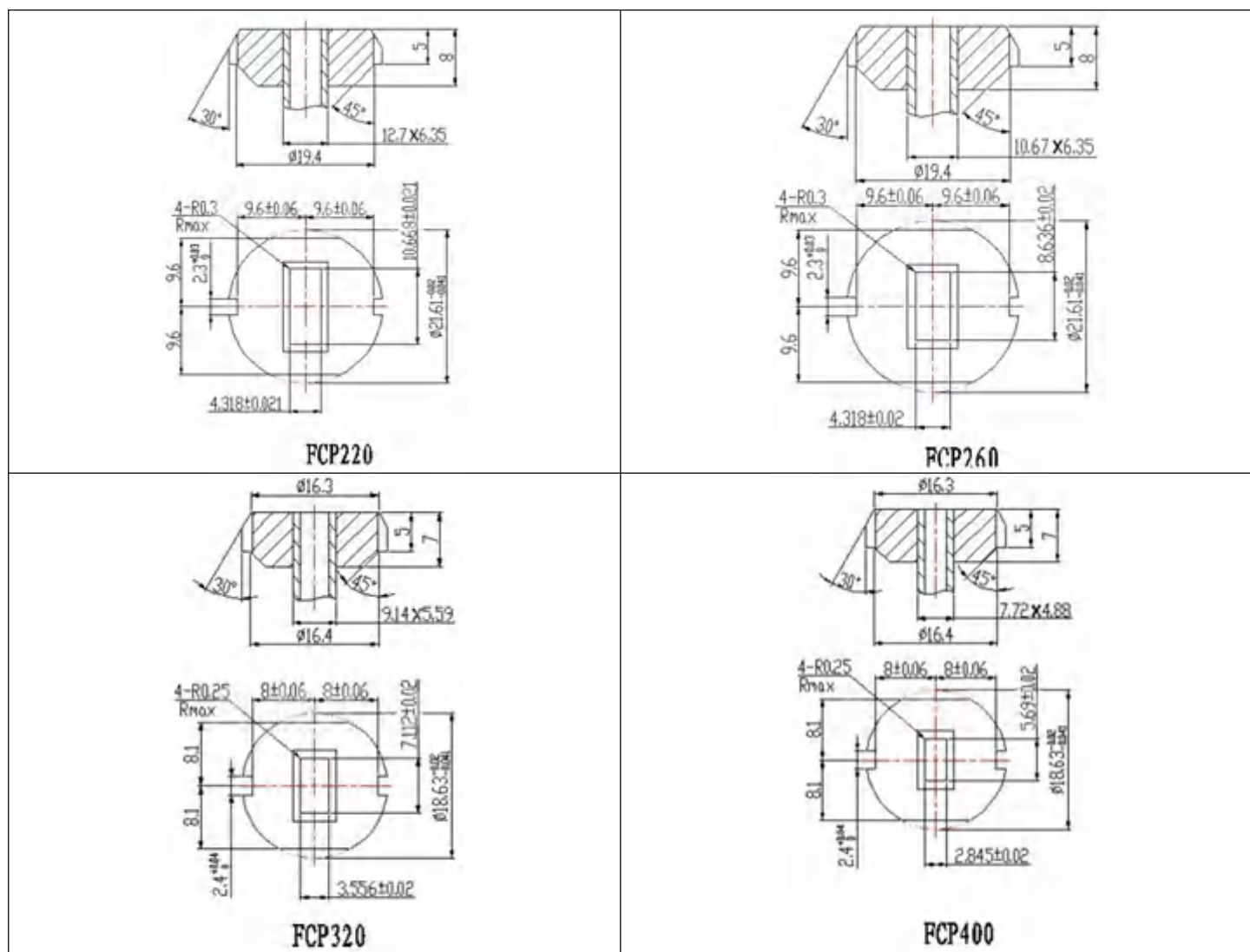
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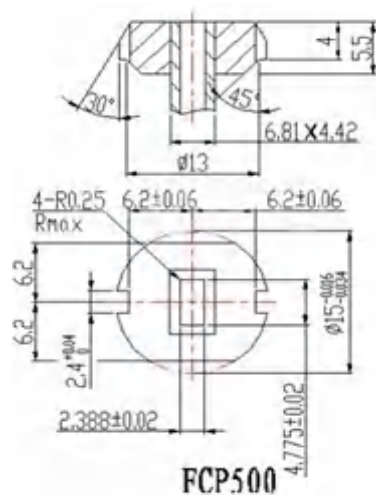
Flange Information (mm)

3.3 C Type Flange (FCP, FCM)

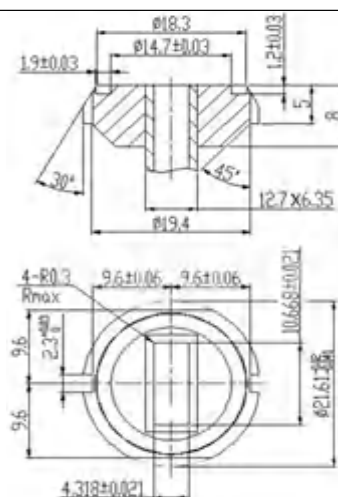




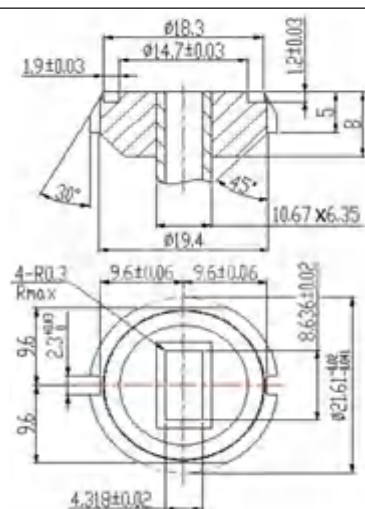
Flange Information (mm)



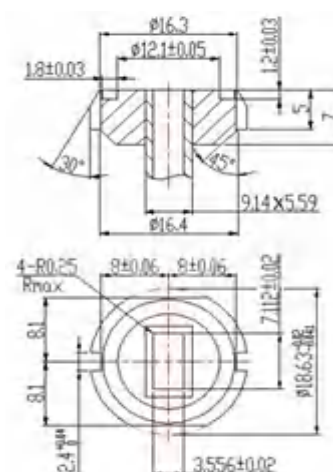
FCP500



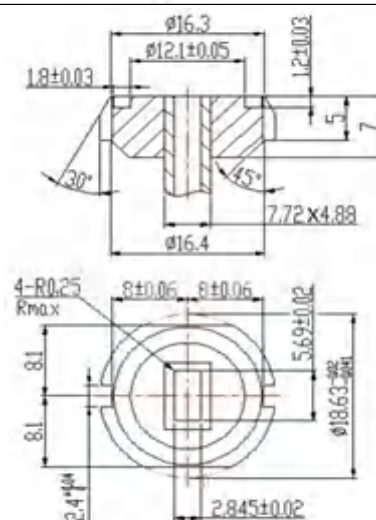
FCM220



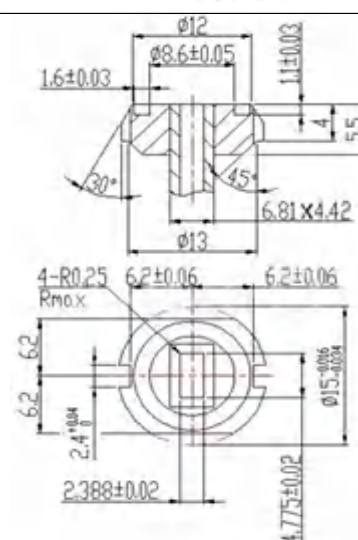
FCM260



FCM320



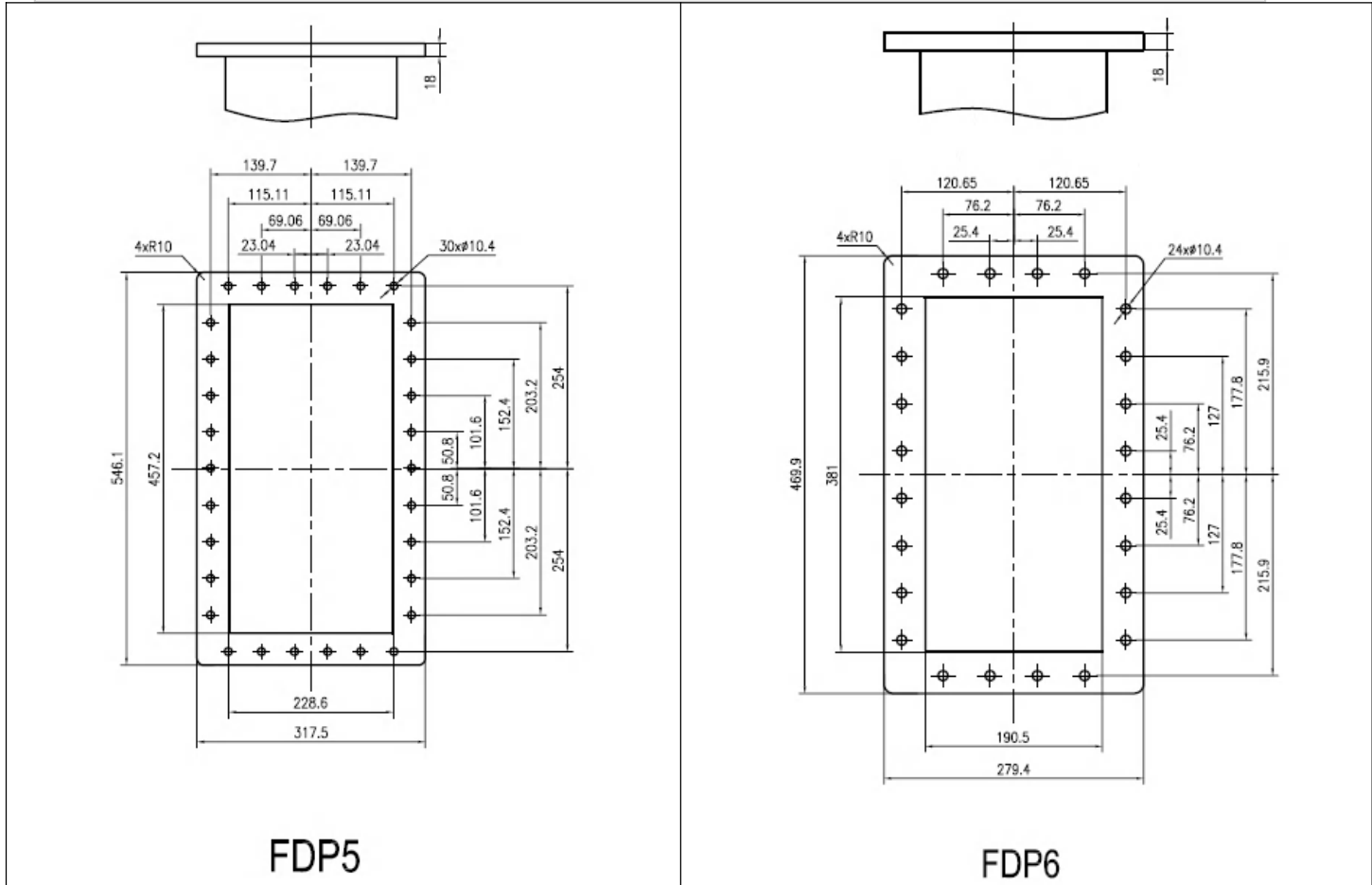
FCM400



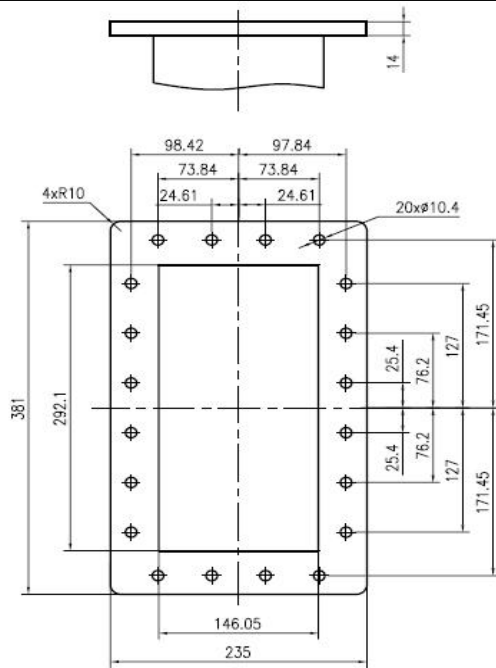
FCM500



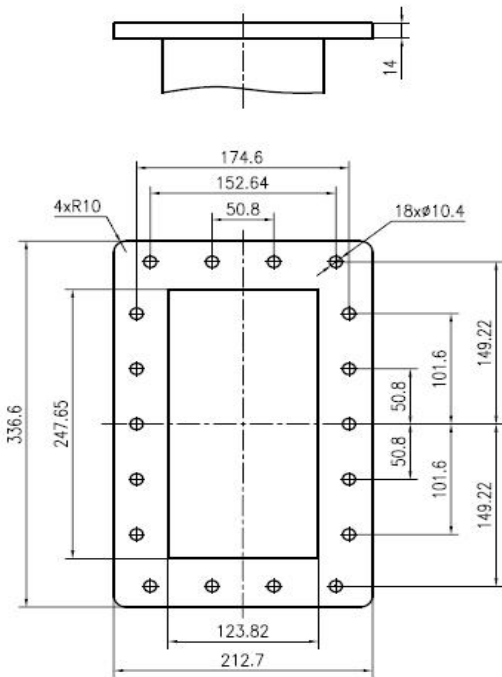
Flange Information (mm)



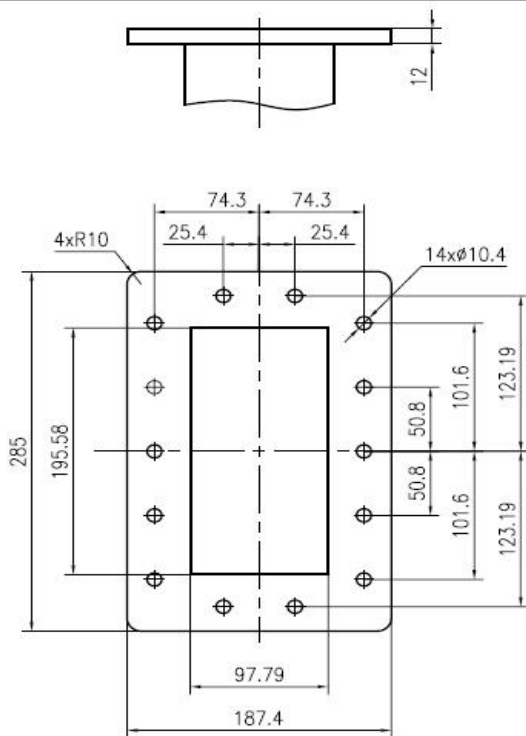
Flange Information (mm)



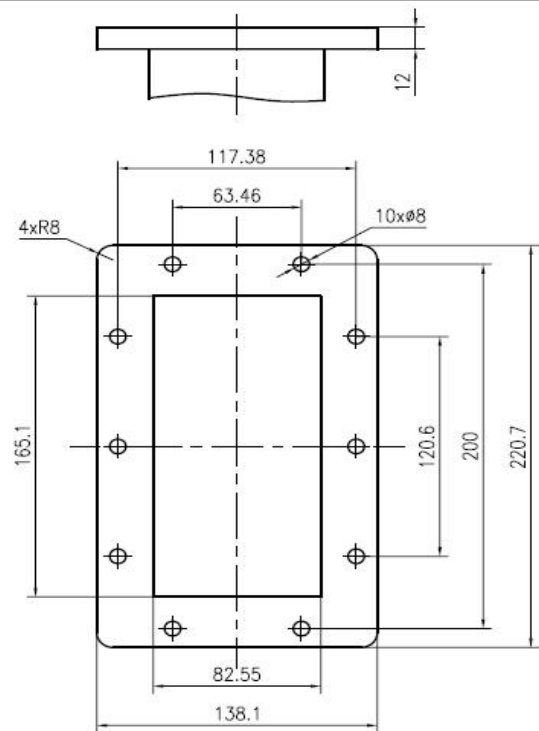
FDP8



FDP9



FDP12



FDP14

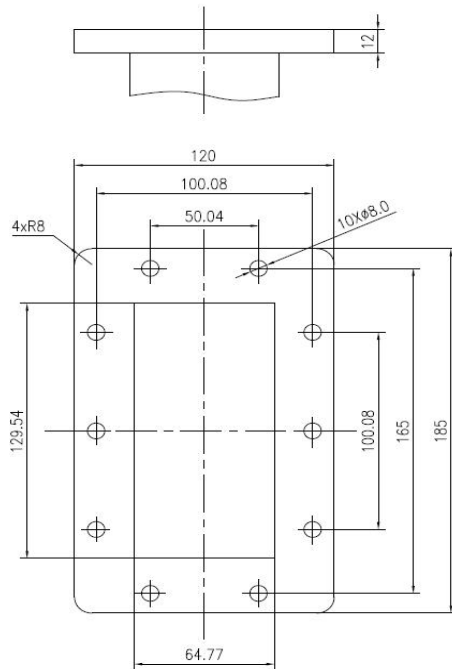


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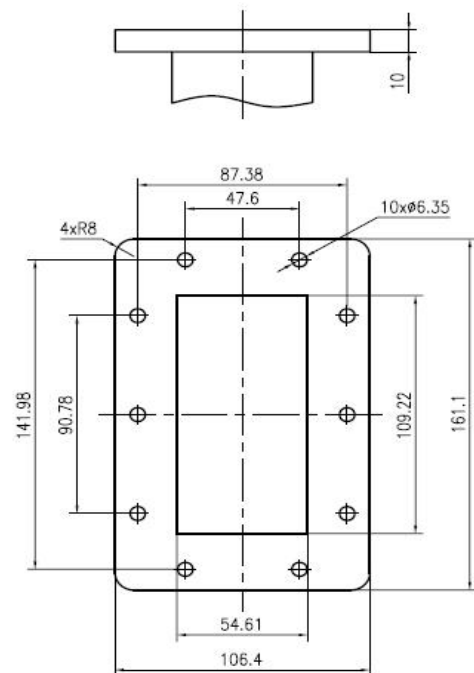
9810138894

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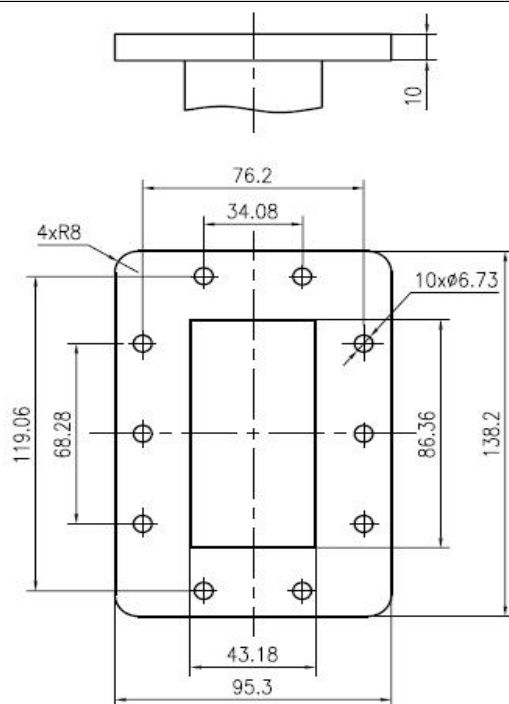
Flange Information (mm)



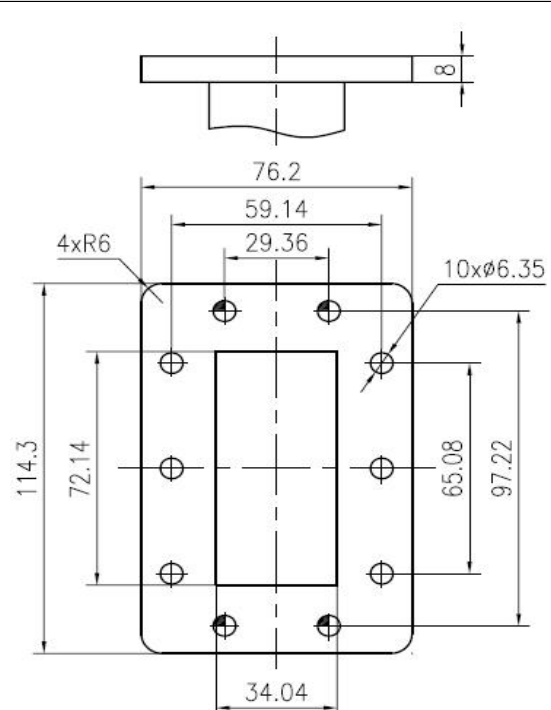
FDP18



FDP22

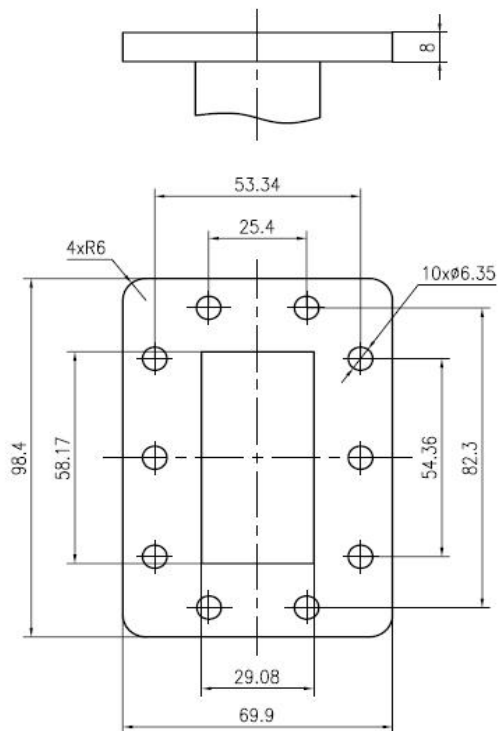


FDP26

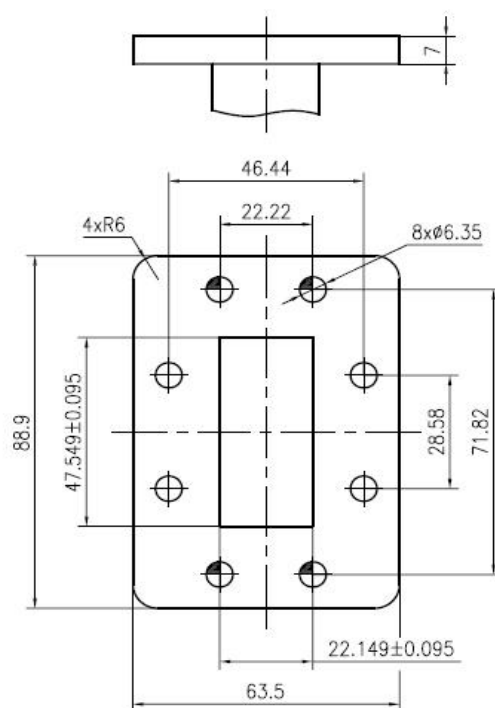


FDP32

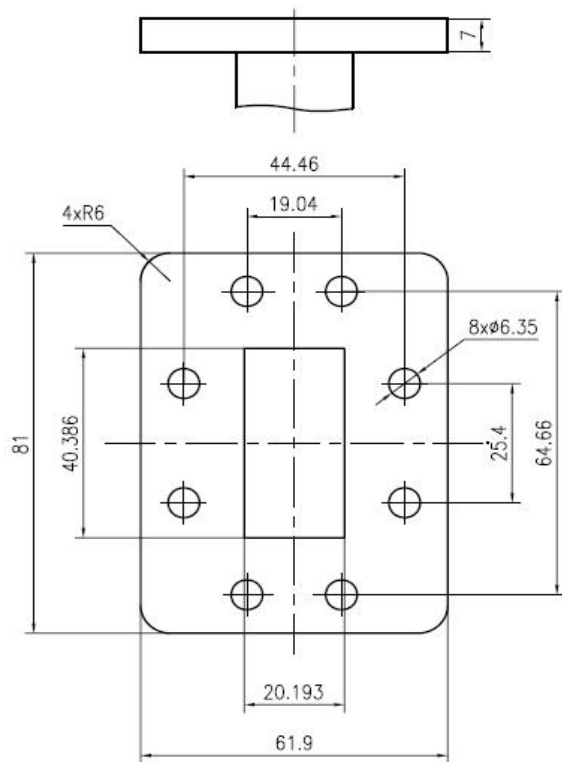
Flange Information (mm)



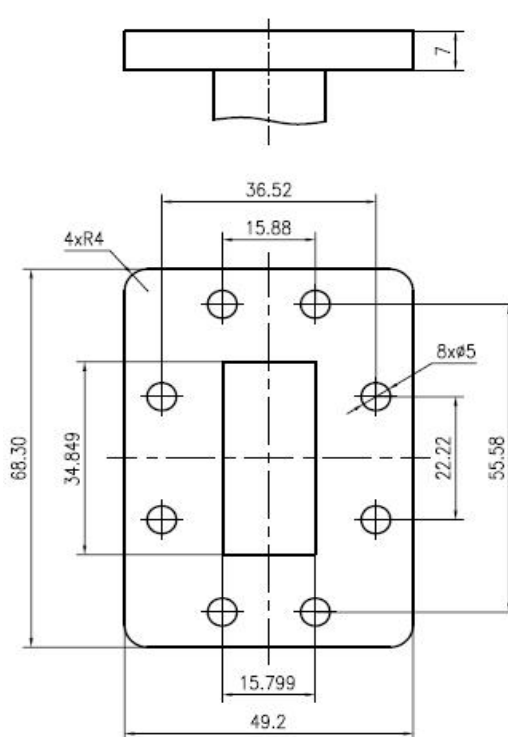
FDP40



FDP48



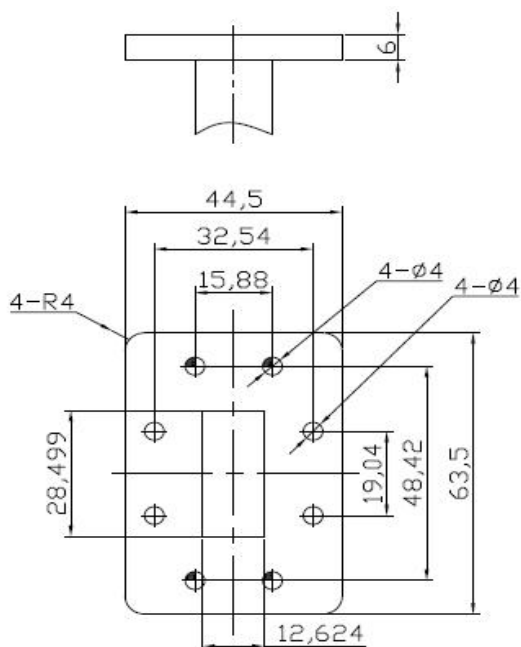
FDP58



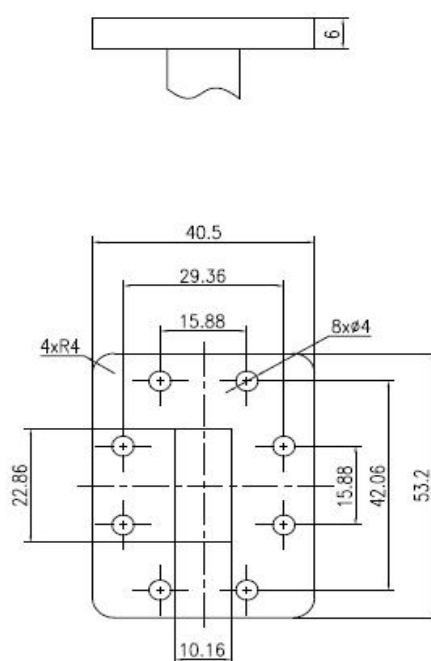
FDP70



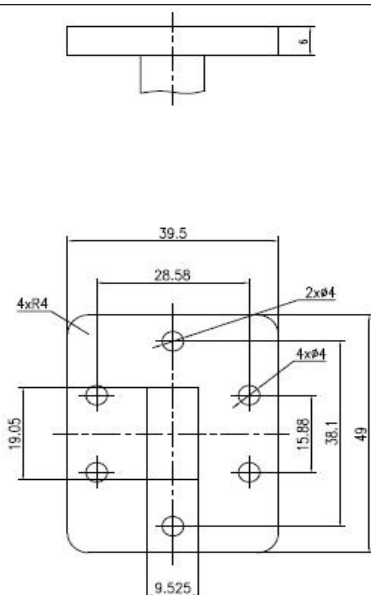
Flange Information (mm)



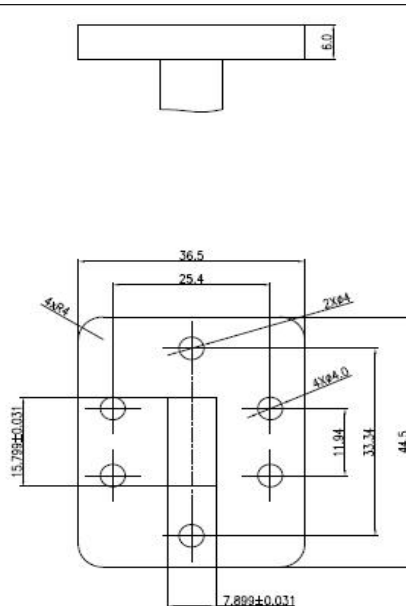
FDP84



FDP100



FDP120



FDP140

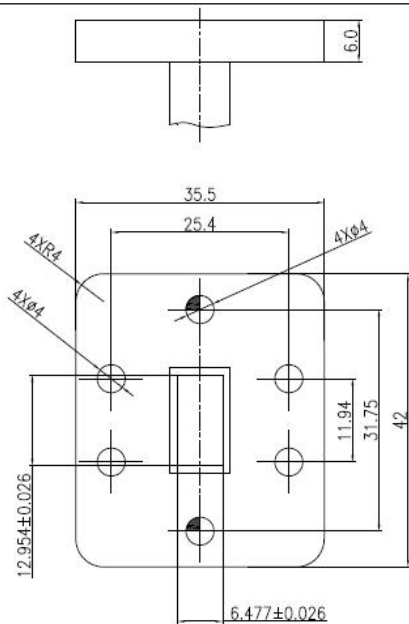


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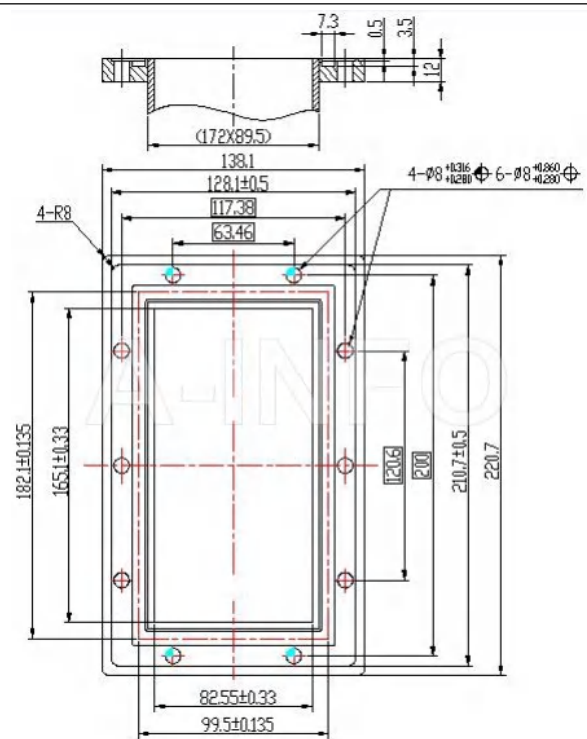
9810138894

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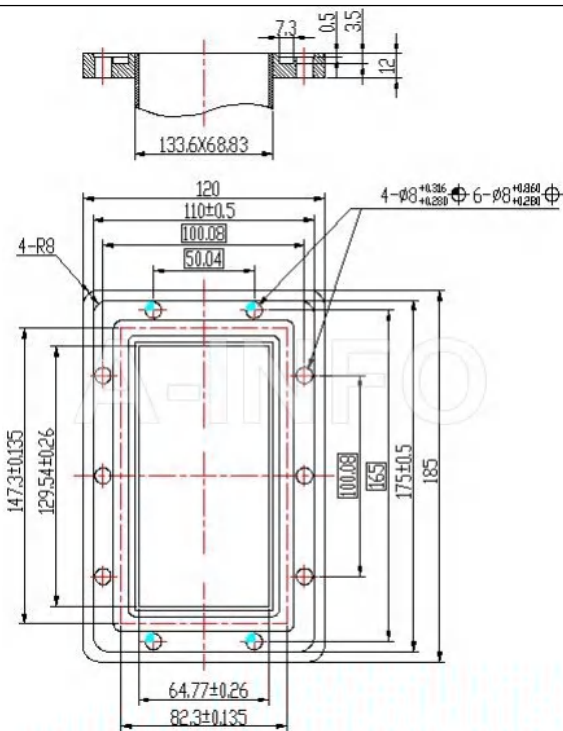
Flange Information (mm)



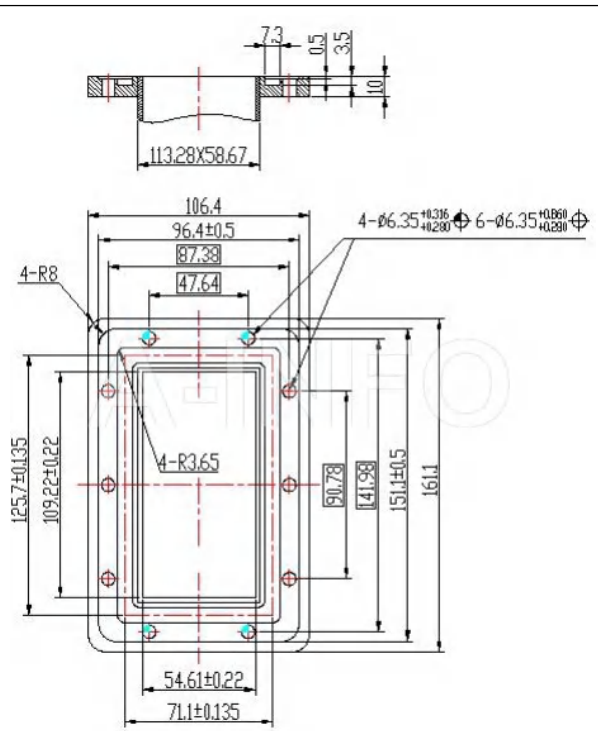
FDP180



FDM14



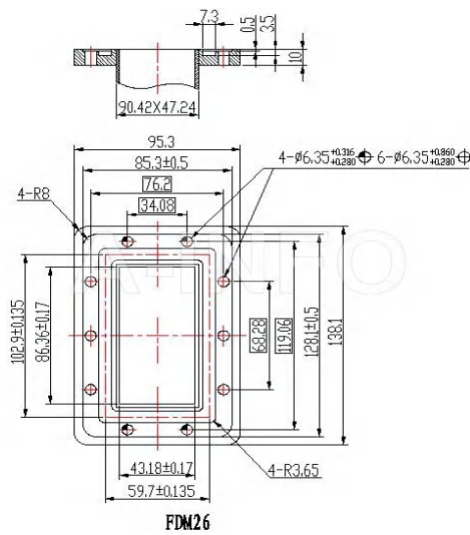
FDM18



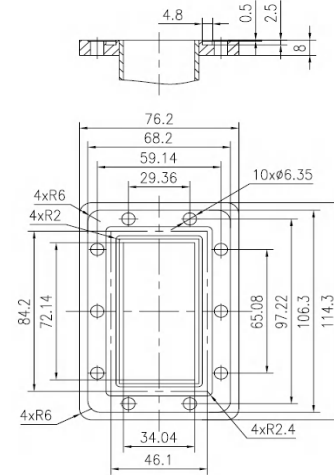
FDM22



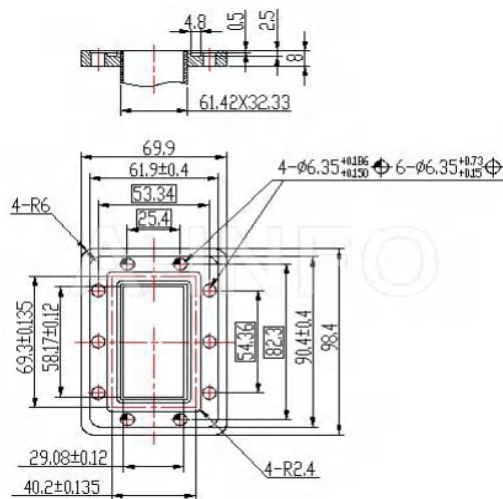
Flange Information (mm)



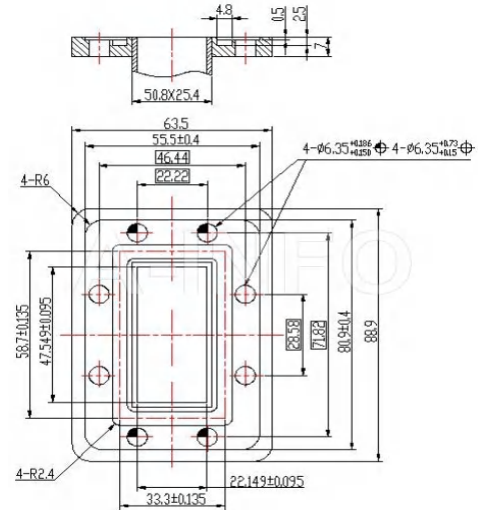
FDM26



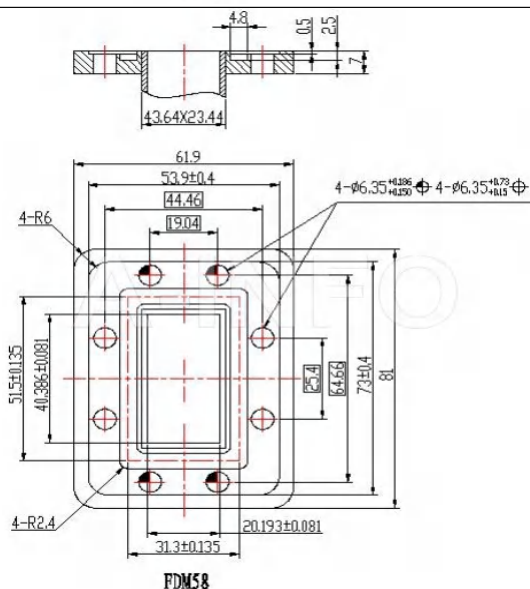
FDM32



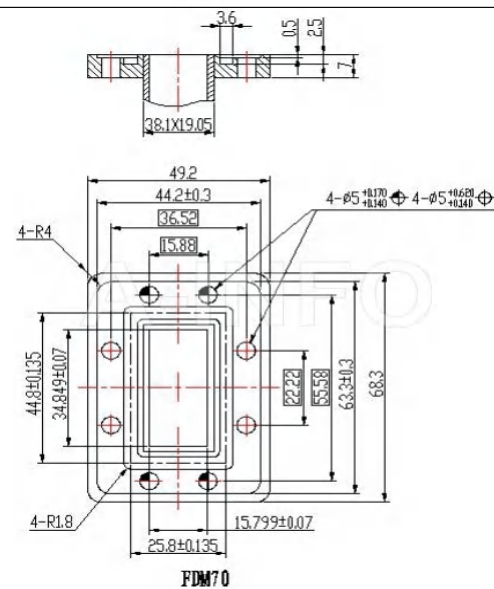
FDM40



FDM48



FDM58



FDM70

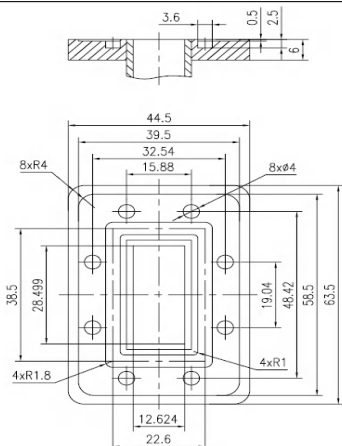


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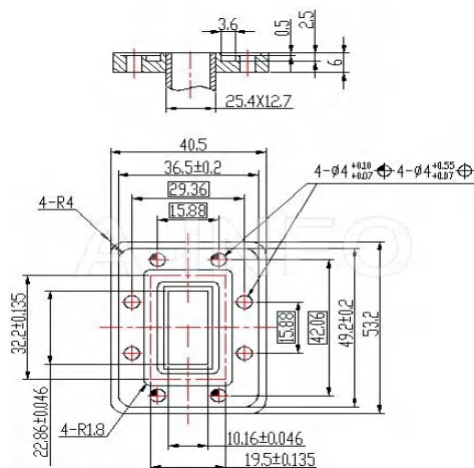
9810138894

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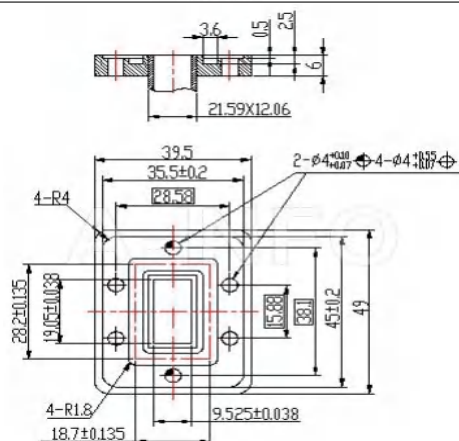
Flange Information (mm)



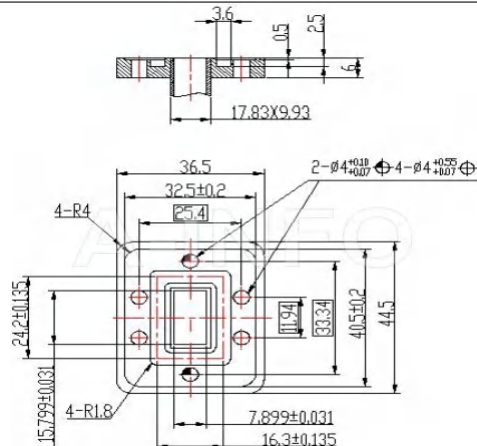
FDM84



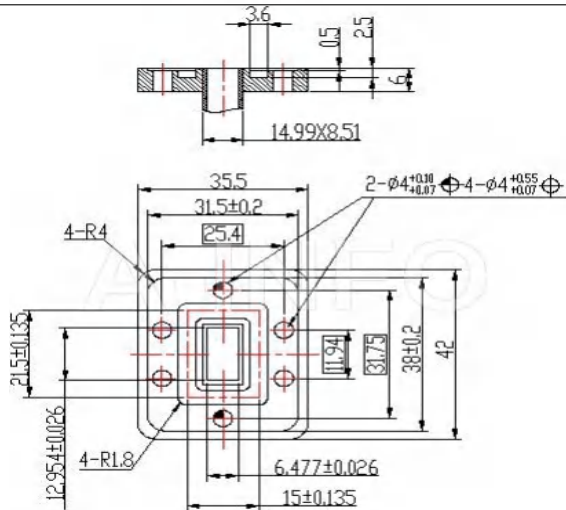
FDM100



FDM120



FDM140



FDM180



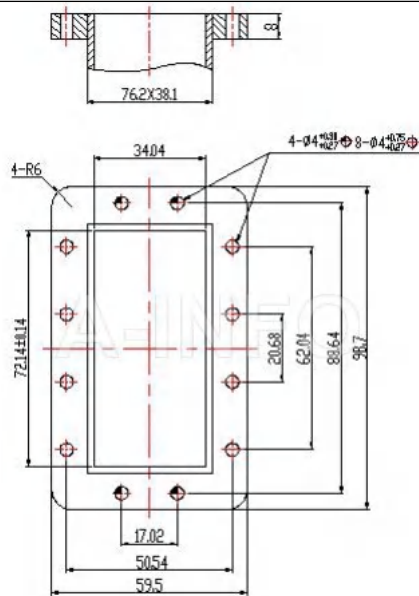
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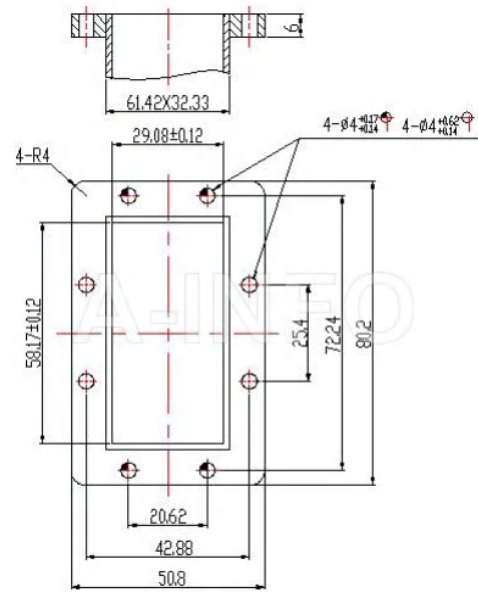
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Flange Information (mm)

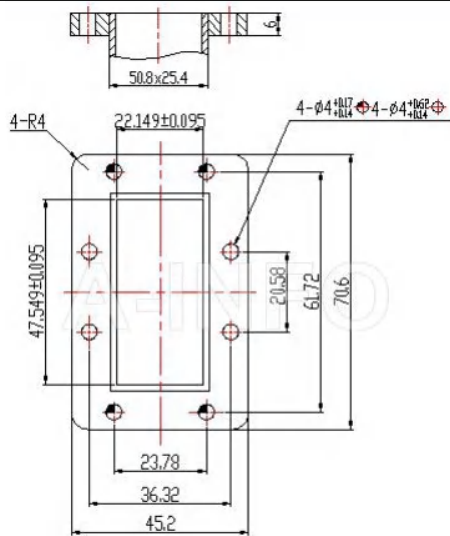
3.5 E Type Flange (FEP)



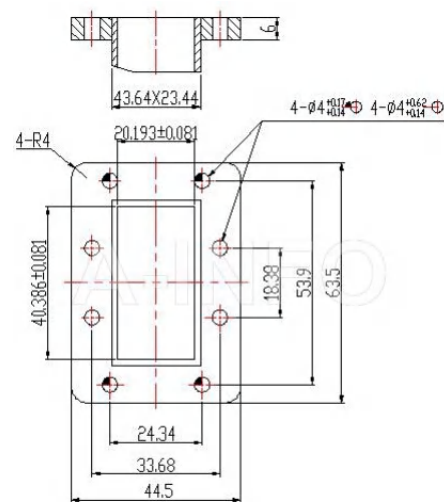
FEP32



FEP40



FEP48



FEP58

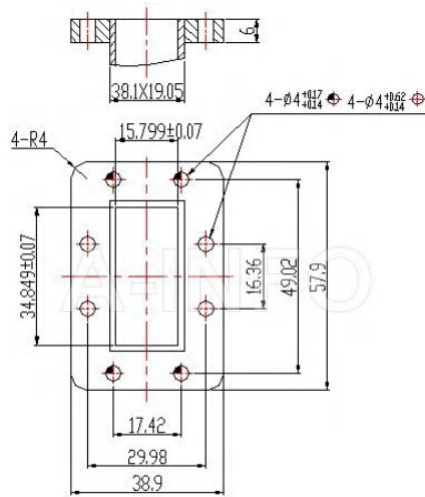


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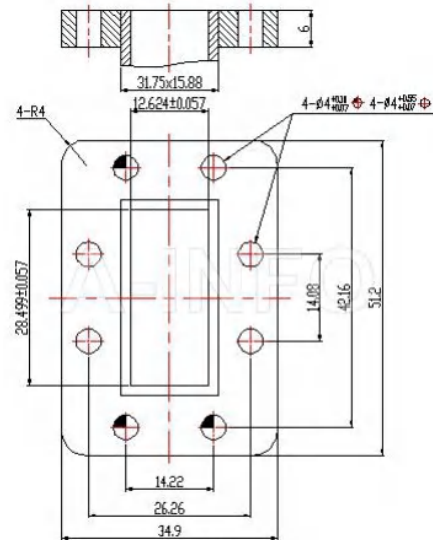
9810138894

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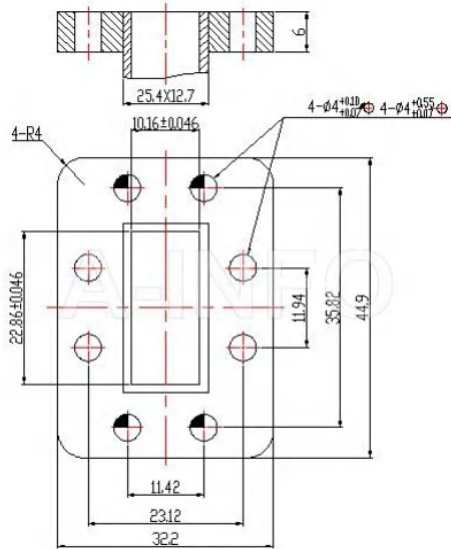
Flange Information (mm)



FEP70



FEP84



FEP100



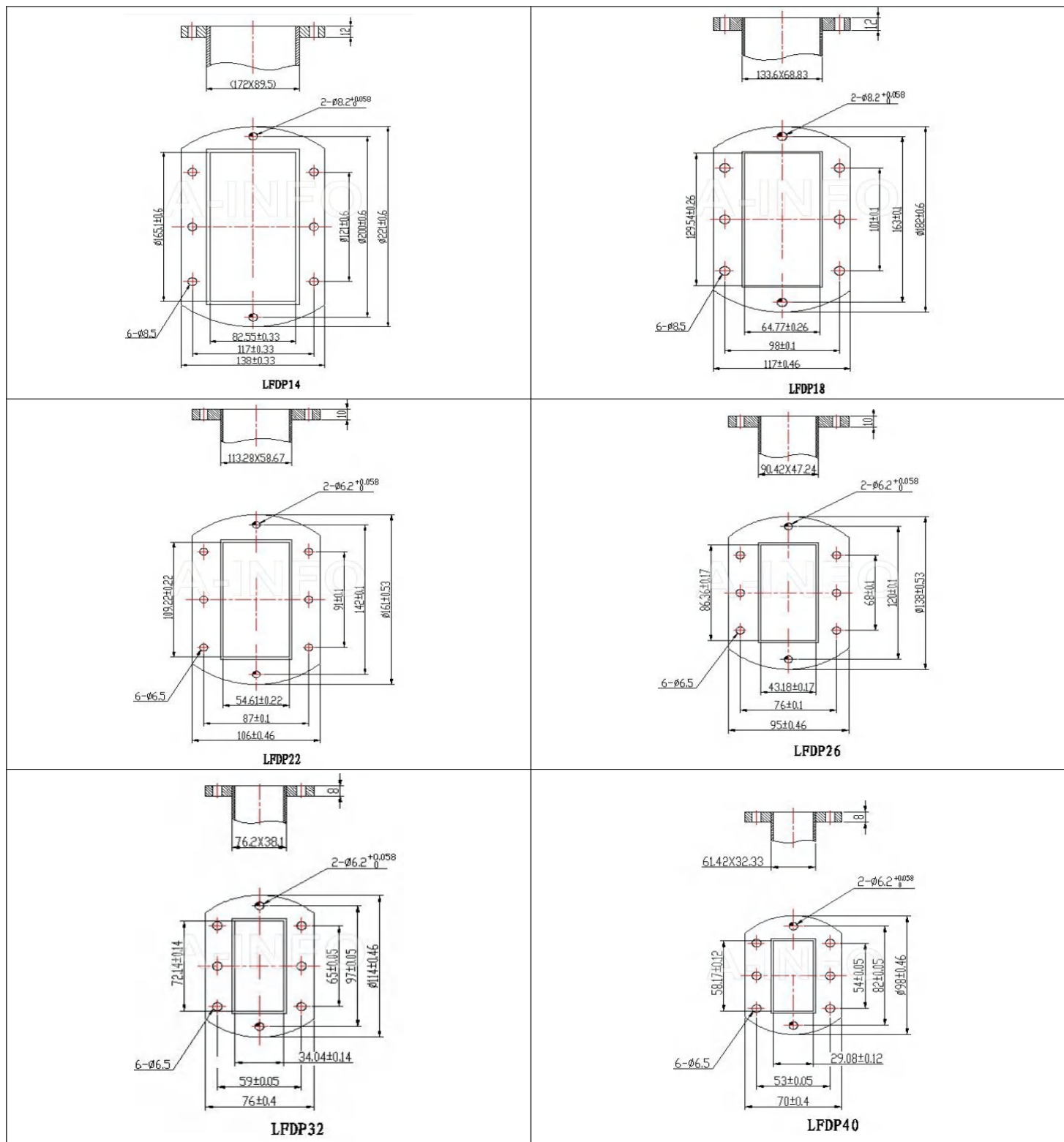
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Flange Information (mm)

3.6 LD Type Flange (LFDP, LFDM)



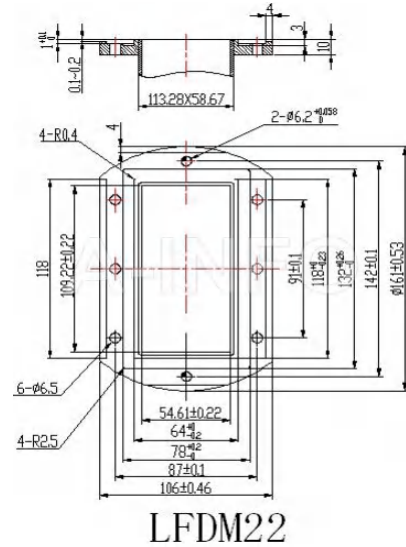
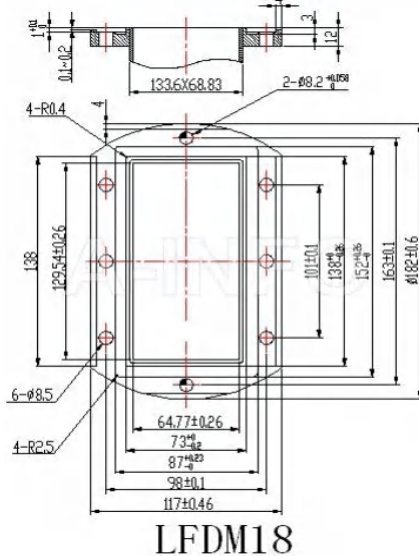
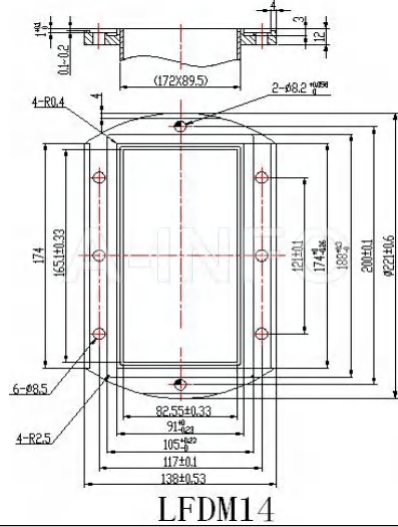
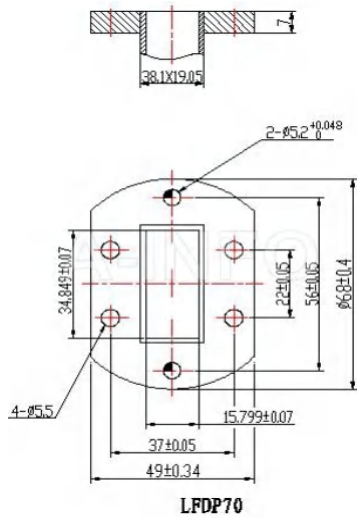
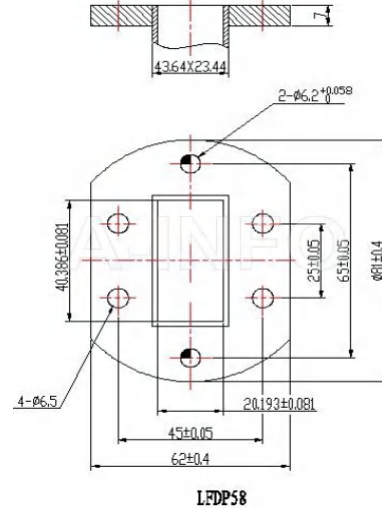
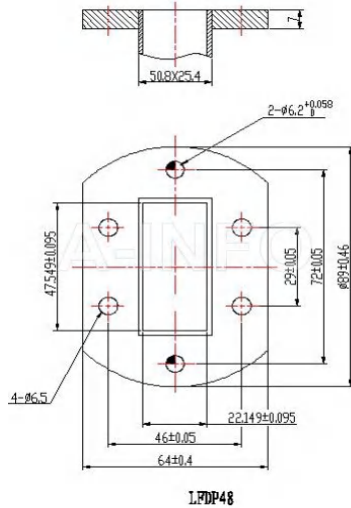


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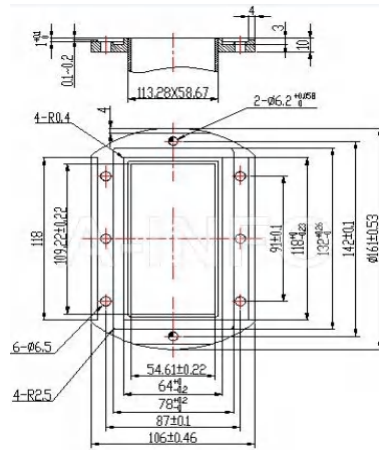
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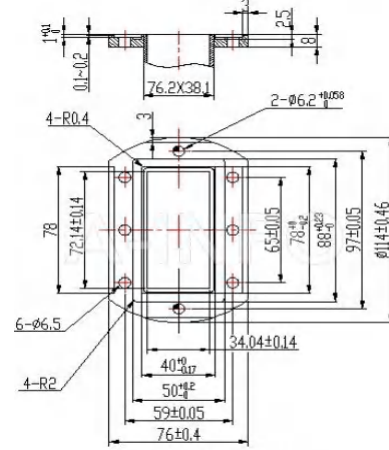
Flange Information (mm)



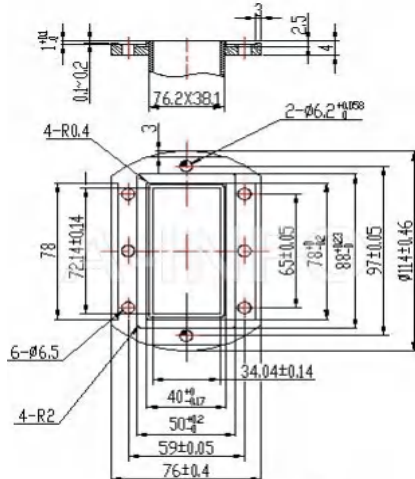
Flange Information (mm)



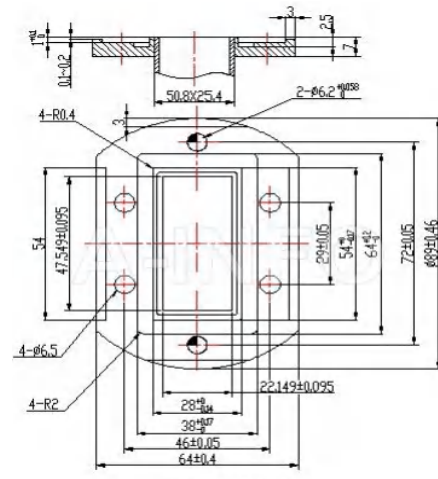
LFDM26



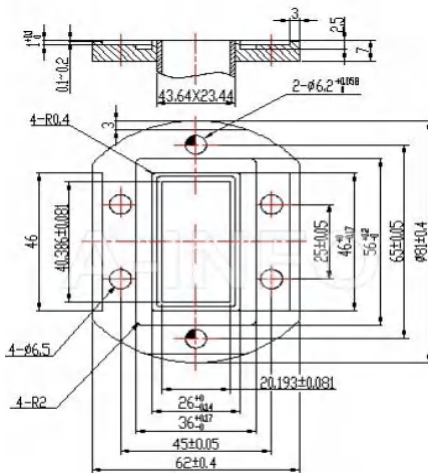
LFDM32



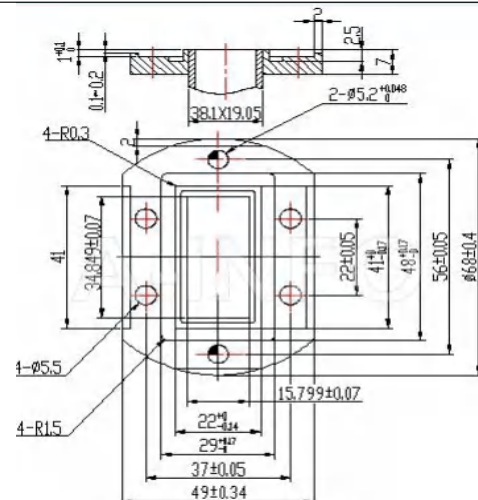
LFDM40



LFDM48



LFDM58

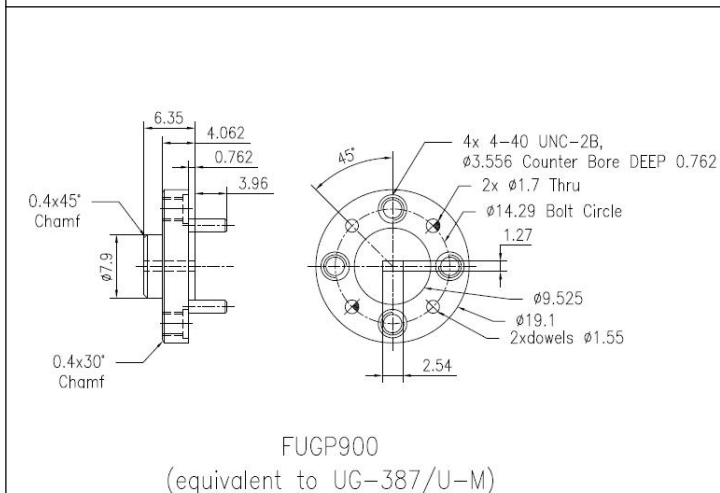
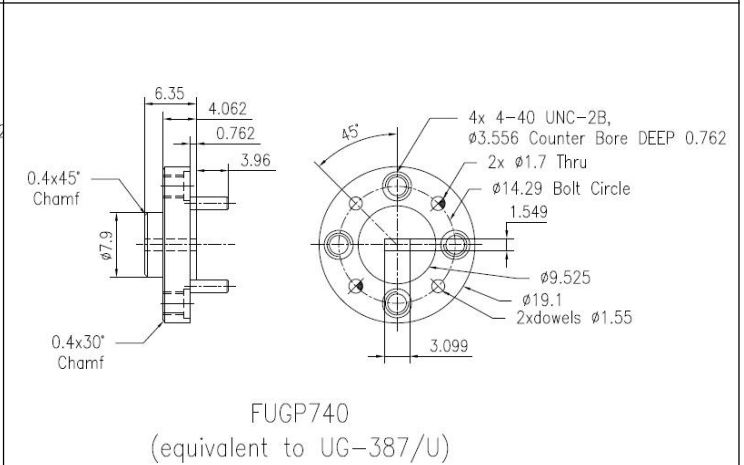
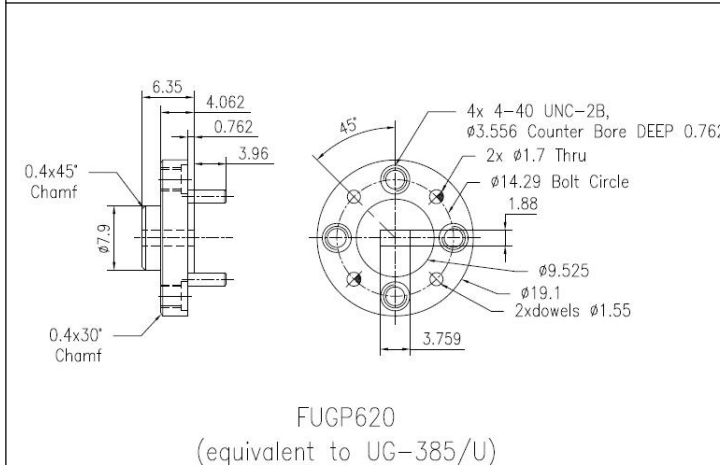
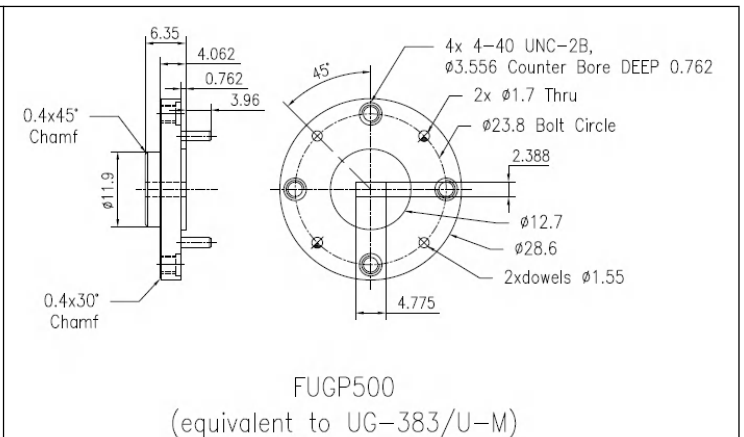
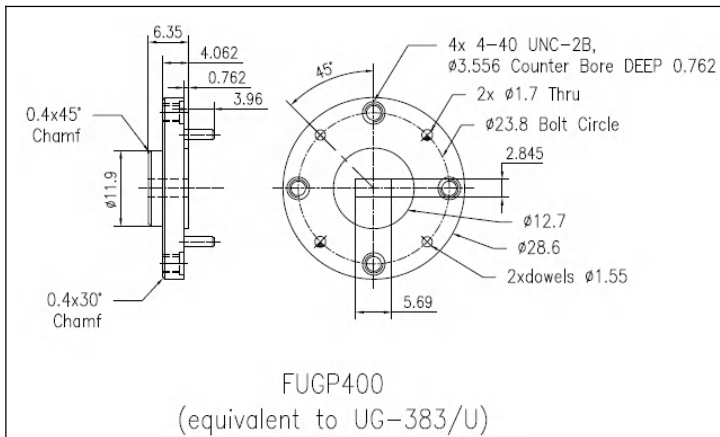


LFDM70



Flange Information (mm)

3.7 UG Type Flange (FUGP)





Flange Information (mm)

Precision Flange Information

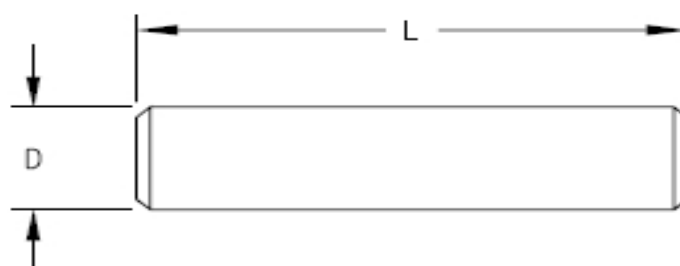
1. Precision Flange Information

EIA WR	A-INFO Precision Flange	Maury MPF Equivalent	Mates with						
			UG	EIA CPR	GMR	A-INFO Flange (IEC Standard)			
						FAP(UAR)	FDP(UDR)	FBP(UBR)	FEP(UER)
WR430	APF430	MPF430	UG435/U				FDP22		
WR340	APF340	MPF340	UG553/U	CPR340F			FDP26		
WR284	APF284	MPF284	UG53/U, UG54A/U	CPR284F/G		FAP32	FDP32		
WR284	APF284B	MPF284B	UG53/U, UG54A/U	CPR284F/G	CMR284	FAP32	FDP32		FEP32
WR284	APF284C	MPF284C	UG53/U, UG54A/U			FAP32			
WR229	APF229	MPF229		CPR229F/G	CMR229		FDP40		FEP40
WR229	APF229B	MPF229B		CPR229F/G			FDP40		
WR187	APF187	MPF187	UG149A/U, UG148B/U	CPR187F/G		FAP48	FDP48		
WR187	APF187C	MPF187C	UG149A/U, UG148B/U			FAP48			
WR159	APF159	MPF159		CPR159F/G	CMR159		FDP58		FEP58
WR159	APF159B	MPF159B		CPR159F/G			FDP58		
WR137	APF137	MPF137	UG344/U, UG343A/U	CPR137F/G		FAP70	FDP70		
WR137	APF137C	MPF137C	UG344/U, UG343A/U			FAP70			
WR112	APF112	MPF112	UG51/U	CPR112F/G			FDP84	FBP84	
WR112	APF112B	MPF112B	UG51/U, UG52A/U					FBP84	
WR90	APF90	MPF90	UG39/U, UG40A/U	CPR90F/G			FDP100	FBP100	
WR90	APF90A	MPF90A	UG39/U, UG40A/U		CMR90			FBP100	FEP100
WR90	APF90B	MPF90B	UG39/U, UG40A/U					FBP100	
WR75	APF75A	MPF75A	M3922/70-004 and -005					FBP120	
WR75	APF75B	MPF75B	M3922/70-004 and -005					FBP120	
WR62	APF62	MPF62	UG-419/U or UG541A/U					FBP140	
WR51	APF51A	MPF51A	M3922/70-010, -011, -012, -022, -023 and -024						
WR51	APF51B	MPF51B	M3922/70-010, -011, -012, -022, -023 and -024						
WR51	APF51C	MPF51C						FBP180	
WR42	APF42	MPF42	UG595/U or UG596/U					FBP220	
WR34	APF34	MPF34	UG-1530/U, UG595/U or UG596/U						
WR28	APF28	MPF28	UG599/U or UG600/U					FBP320	
WR22	APF22	MPF22	UG383/U (FUGP400)						
WR22	APF22A	MPF22A	Mates with precision APF(MPF) flange and do not include the four hole indexing pattern.						
WR19	APF19	MPF19	UG383/U-M (FUGP500)						
WR19	APF19A	MPF19A	Mates with precision APF(MPF) flange and do not include the four hole indexing pattern.						
WR15	APF15	MPF15	UG385/U (FUGP620)						
WR15	APF15A	MPF15A	Mates with precision APF(MPF) flange and do not include the four hole indexing pattern.						
WR12	APF12	MPF12	UG387/U (FUGP740)						
WR12	APF12A	MPF12A	Mates with precision APF(MPF) flange and do not include the four hole indexing pattern.						
WR10	APF10	MPF10	UG387/U-M (FUGP900)						
WR10	APF10A	MPF10A	Mates with precision APF(MPF) flange and do not include the four hole indexing pattern.						

Flange Information (mm)

EIA WR	A-INFO Precision Flange	Maury MPF Equivalent	Mates with			
			UG	EIA CPR	CMR	A-INFO Flange (IEC Standard)
						FAP(UAR) FDP(UDR) FBP(UBR) FEP(UER)
WR8	APF8	-	UG387/U-M			
WR6	APF6	-	UG387/U-M			
WR5	APF5	-	UG387/U-M			
WR4	APF4	-	UG387/U-M			
WR3	APF3	-	UG387/U-M			

2. Precision Flange Indexing Pins



Used On WR	P/N	L(mm)	D (inch)	D (mm)
430, 340, 284, 229, 187	APFP-6-1	40.6	0.2489	6.32
	APFP-6-2	25.4		
159, 137	APFP-4-1	38.1	0.1864	4.73
	APFP-4-2	19.1		
112, 90, 75, 62, 51	APFP-3-1	34.8	0.1239	3.15
	APFP-3-2	15.7		
42, 28, 22, 19	APFP-2-1	25.4	0.0931	2.36
	APFP-2-2	9.4		
15, 12, 10	APFP-1-1	8.9	0.062	1.57
	APFP-1-2	10.5		
8, 6, 5, 4, 3	APFP-1-1	8.9	0.062	1.57



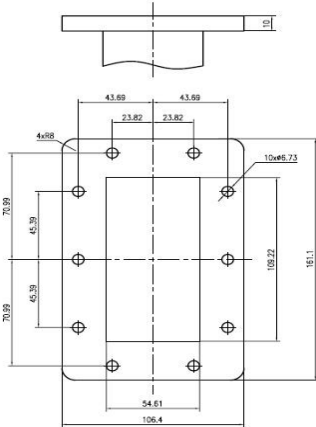
pradeep@rfconnector.in

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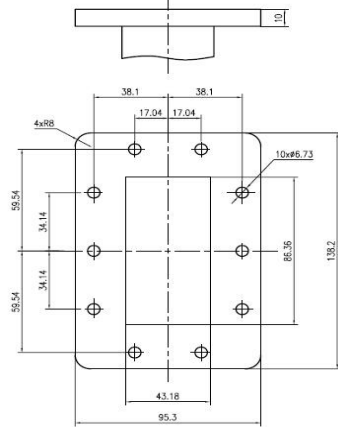
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Flange Information (mm)

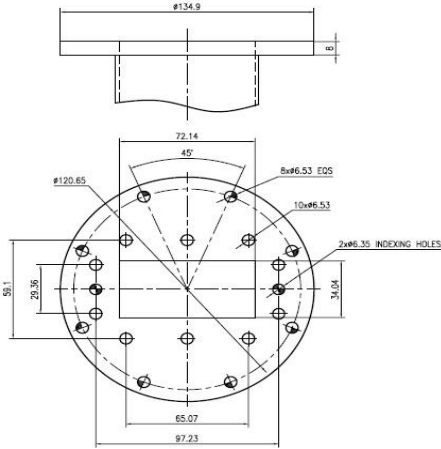
3. Precision Flange Drawing



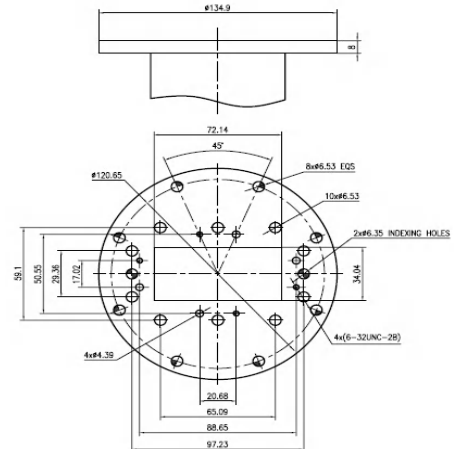
APF430



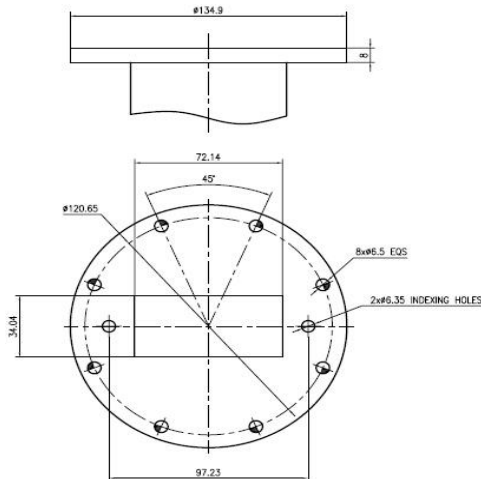
APF340



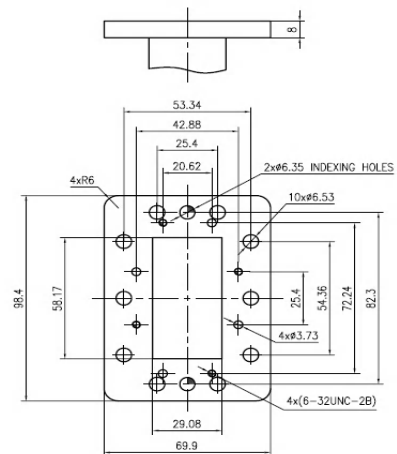
APF284



APF284B



APF284C



APF229

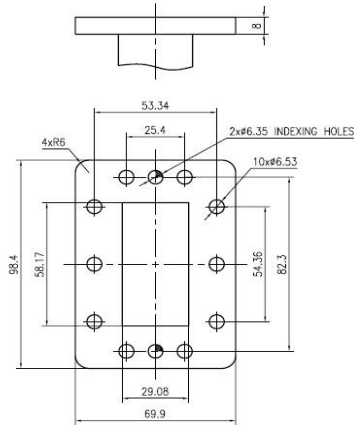


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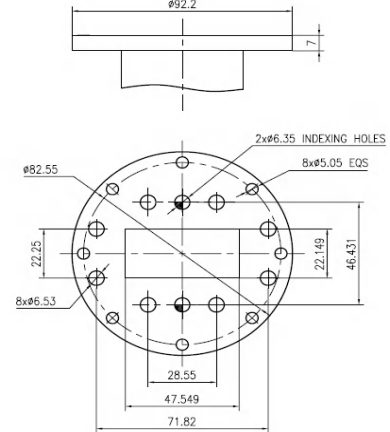
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www.synergyppl.com

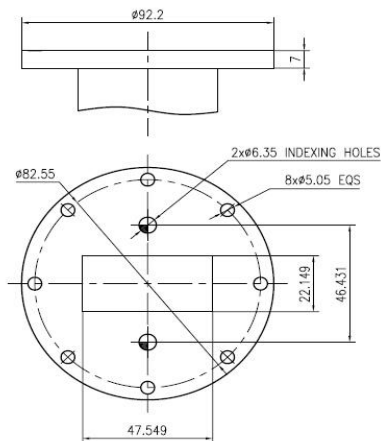
Flange Information (mm)



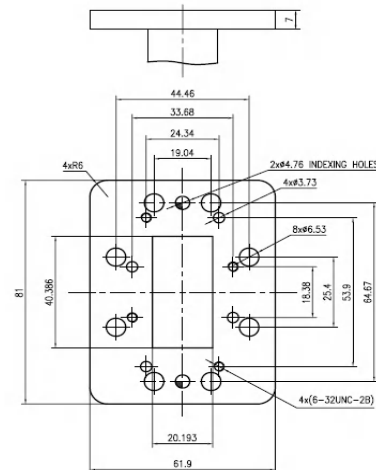
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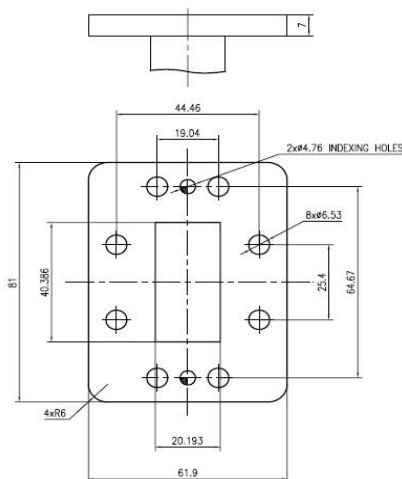
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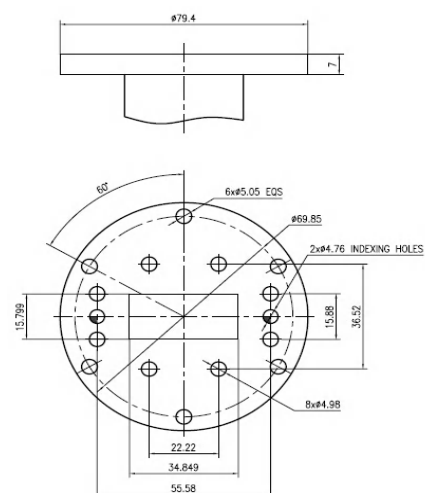
APF187C



APF159



APF159B



APF137

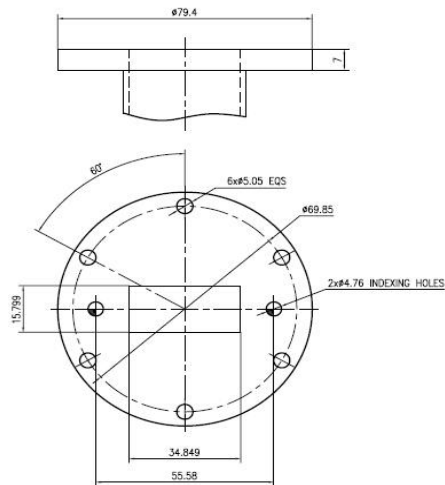


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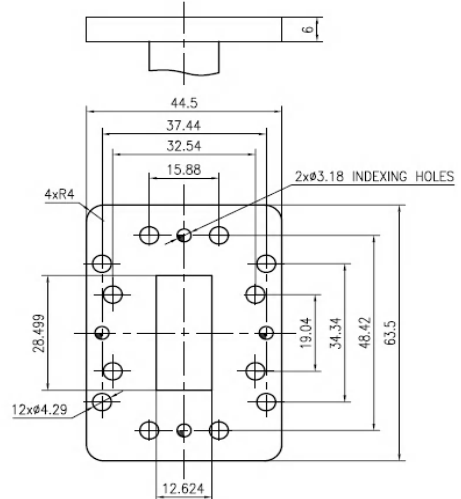
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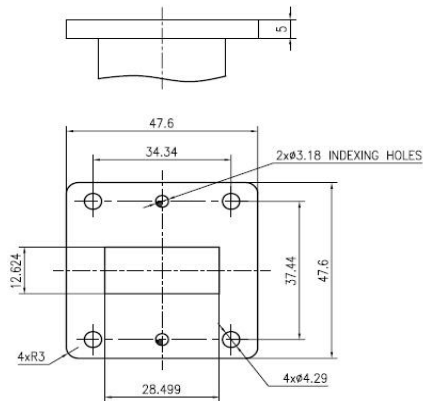
Flange Information (mm)



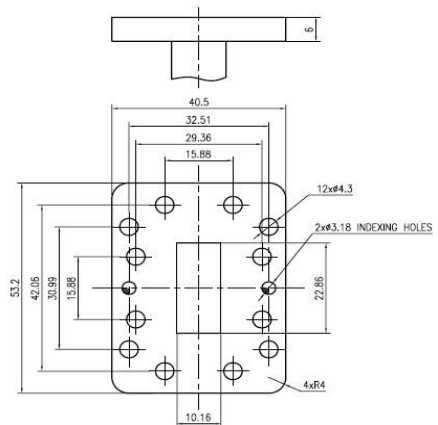
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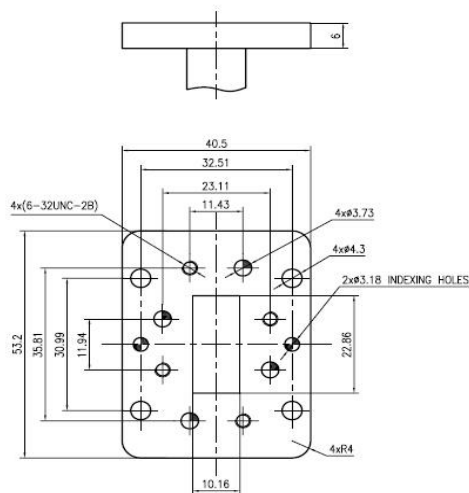
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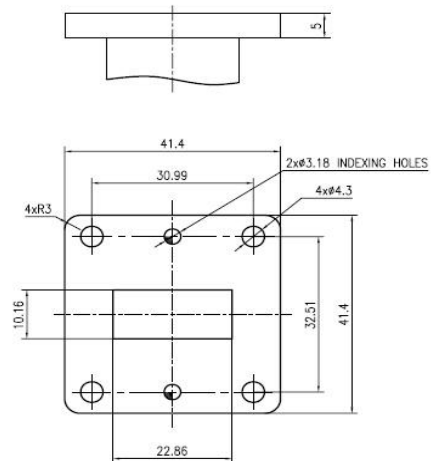
APF112B



APF90



APF90A



APF90B

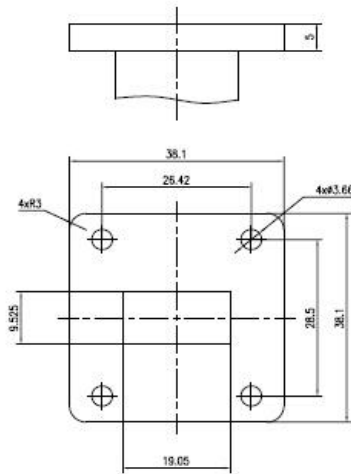


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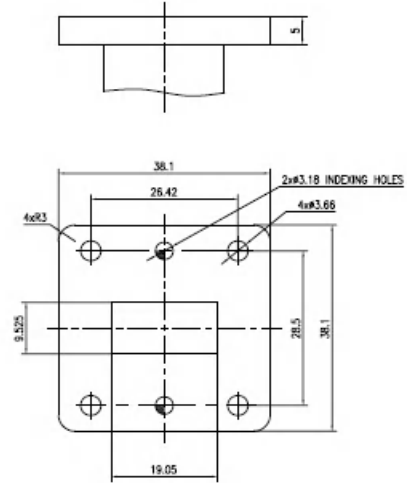
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www.synergyppl.com

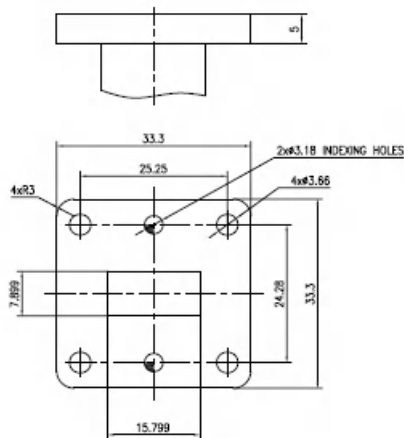
Flange Information (mm)



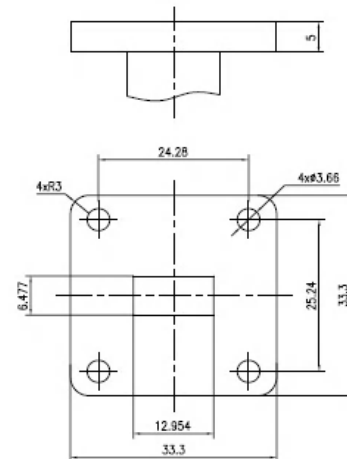
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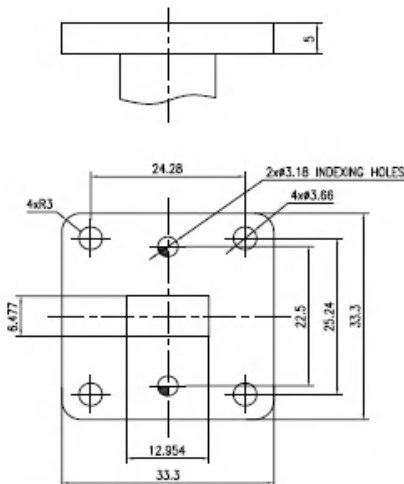
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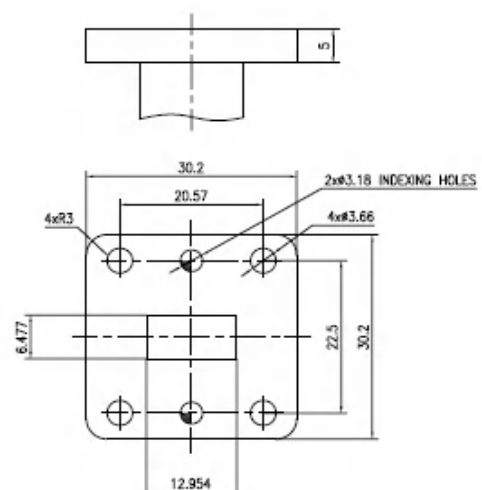
APF62



APF51A



APF51B



APF51C



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MICRO, SMALL & MEDIUM ENTERPRISES

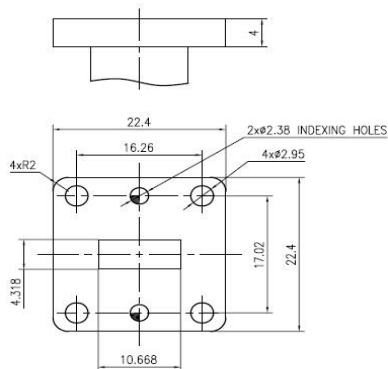


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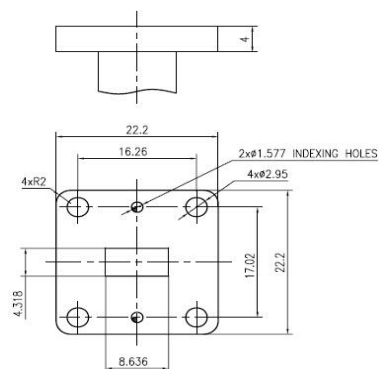
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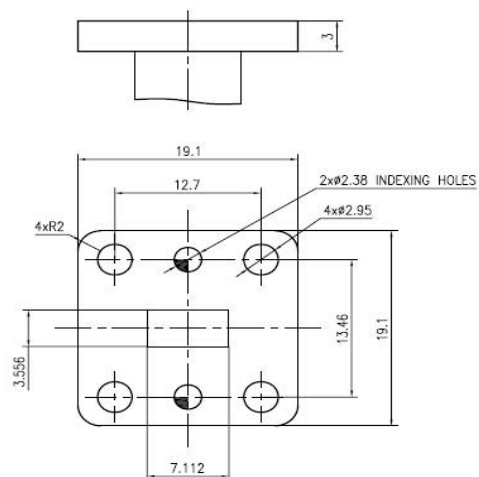
Flange Information (mm)



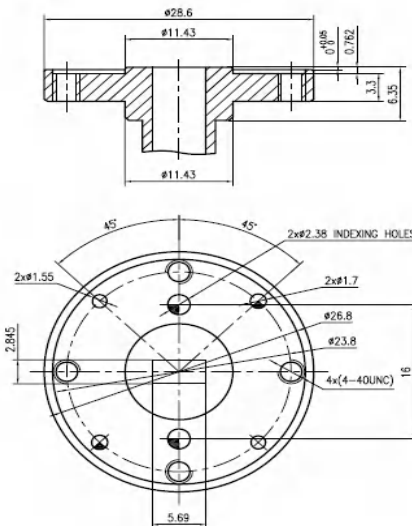
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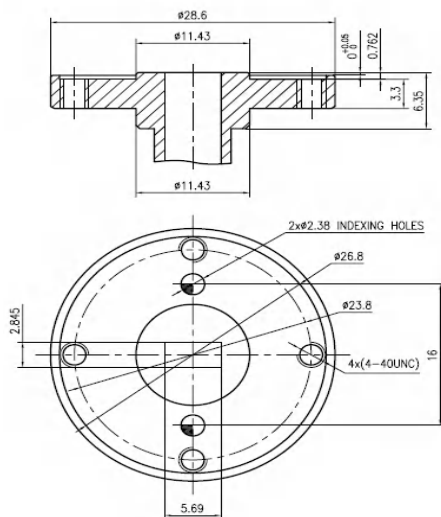
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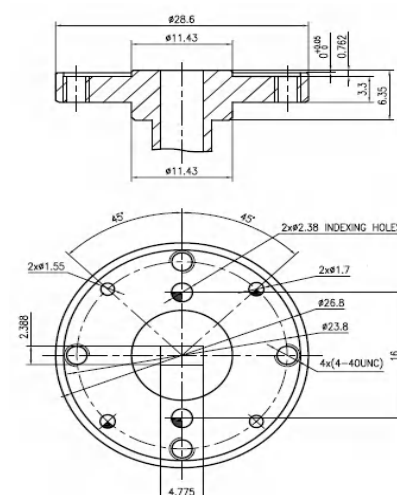
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APF22

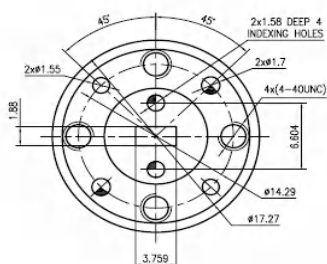
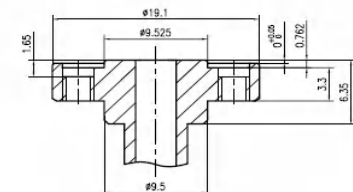


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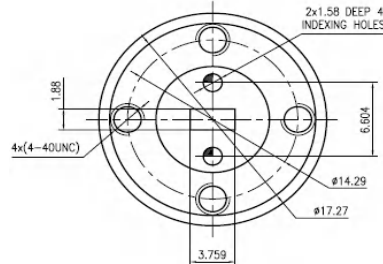
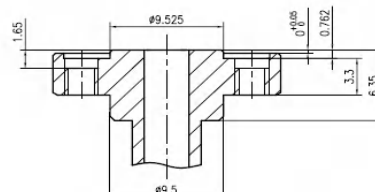


APF19

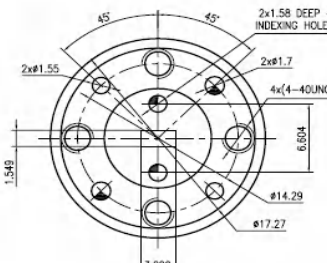
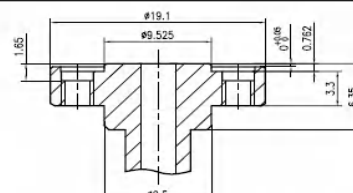
Flange Information (mm)



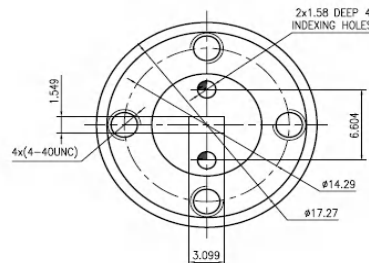
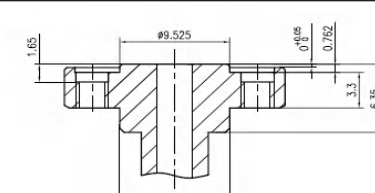
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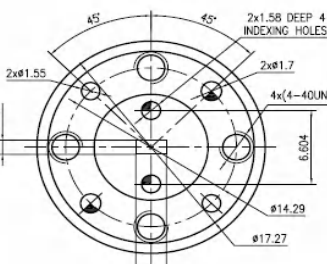
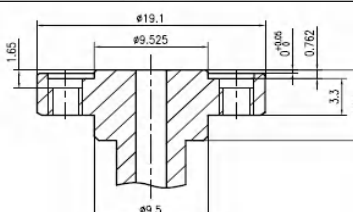
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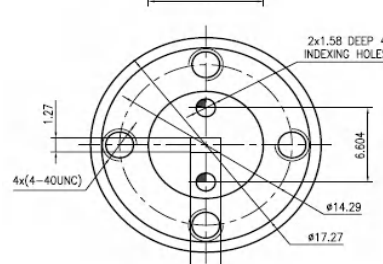
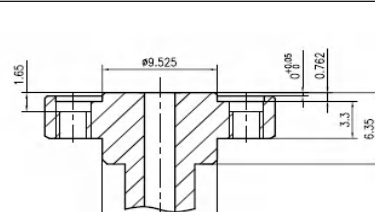
APF12



APF12A



APF10



APF10A



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Flange Information (mm)

Double Ridge Flange Information

1. Double Ridge Flange Information

EIA WRD	Cover Flange	Cover Flange
WRD84	FPWRD84D24	-
WRD200	FPWRD200D24	-
WRD250	FPWRD250D30	-
WRD350	FPWRD350D24	-
WRD475	FPWRD475D24	FMWRD475D24
WRD580	FPWRD580D28	FMWRD580D28
WRD650	FPWRD650D28	FMWRD650D28
WRD750	FPWRD750D24	FMWRD750D24
WRD110	FPWRD110C24	FMWRD110C24
WRD180	FPWRD180C24	FMWRD180C24



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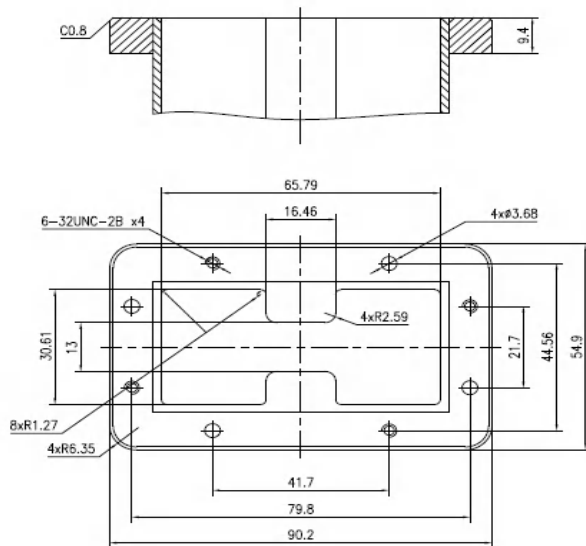
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Flange Information (mm)

2. Double Ridge Flange Drawing

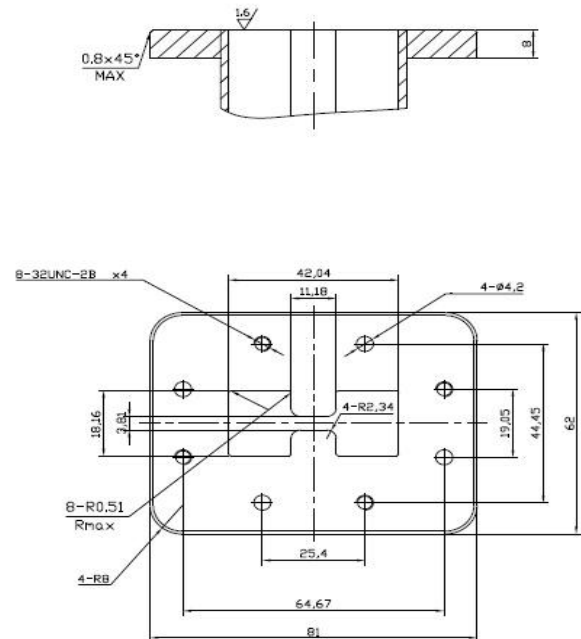
FPWRD200D24

(With four through mounting holes and four screws holes)



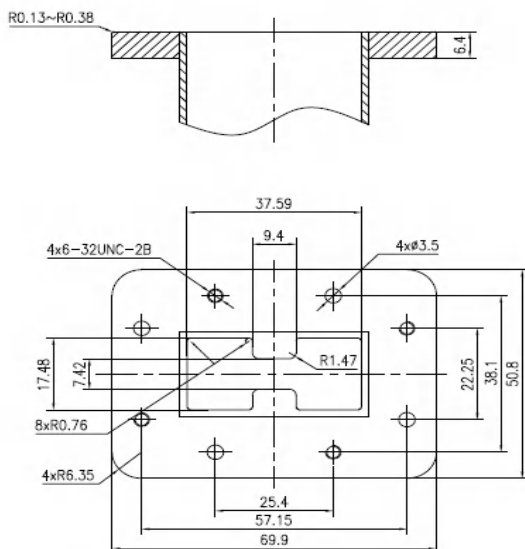
FPWRD250D30

(With four through mounting holes and four screws holes)



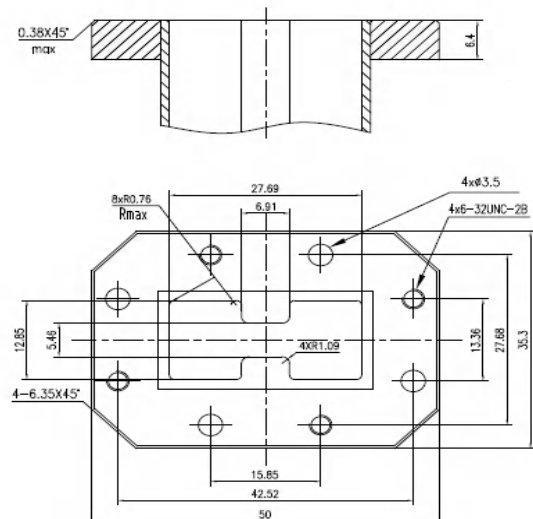
FPWRD350D24

(With four through mounting holes and four screws holes)



FPWRD475D24

(With four through mounting holes and four screws holes)





 www.synergytpl.com



pradeep@rfconnector.in

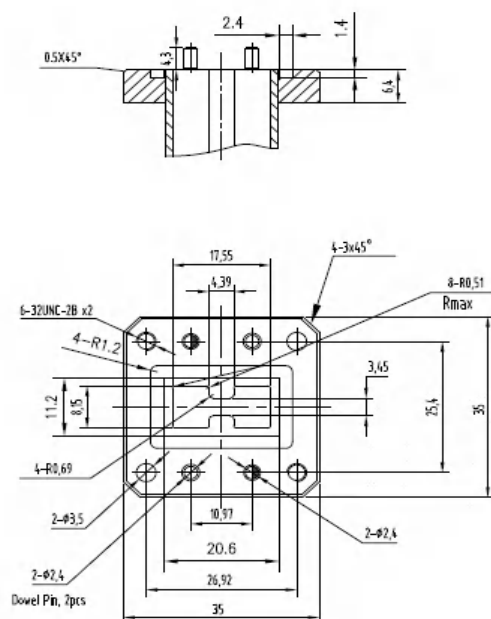
9810138894

www.synergyppl.com

Flange Information (mm)

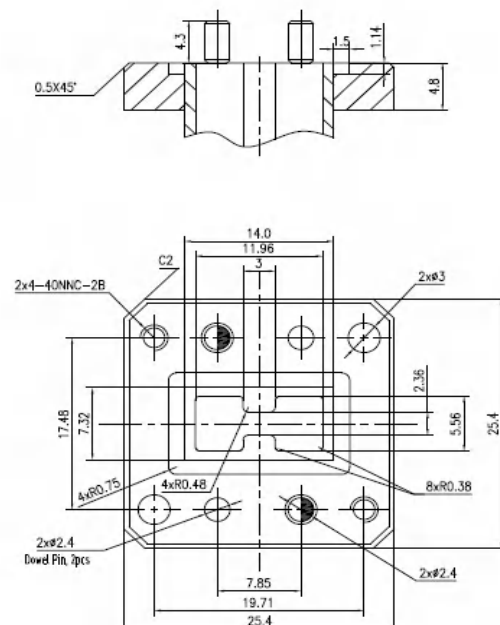
FMWRD750D24

(With two through mounting holes and two screws holes)



FMWRD110C24

(With two through mounting holes and two screws holes)



FMWRD180C24

(With two through mounting holes and two screws holes)

