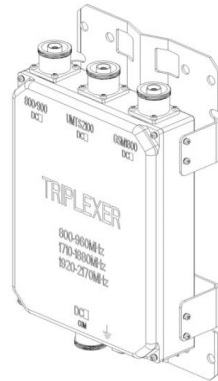


Triple Band Combiner Specification

General

Type: Indoor/Outdoor

Frequency band: 900 & 1800 & 2100 MHz



Item	AIS Specification	Vendor Specification	
		Comply or not comply	Specification
Electrical Specification			
900 MHz(part1)			
Frequency response Band 900 MHz(MHz)			
Lower frequency	890.0 or 897.5		
Upper frequency	960		
Impedance (Ohm)	50		
Return loss (dB)	>20		
Insertion loss (Between part1 to part4)(dB)	<0.25		
Isolation (Between part1 to part2)(dB)	>45		
Isolation (Between part1 to part3)(dB)	>45		
In-band Intermodulation@2-tone x 20W (dBc)	≤-150		
Inter-band Intermodulation@2-tone x 20W (dBc)	≤-150		
DC Characteristics (Between part1 to part4)	Black		

Average input power at part 1 (Watt),(Continuous)	>150		
1800 MHz(part2)			
Frequency response Band 1800 MHz(MHz)			
Lower frequency	1710		
Upper frequency	1880		
Impedance (Ohm)	50		
Return loss (dB)	>20		
Insertion loss (Between part2 to part4)(dB)	<0.5		
Isolation (Between part2 to part1)(dB)	>45		
Isolation (Between part2 to part3)(dB)	>45		
In-band Intermodulation@2-tone x 20W (dBc)	≤-150		
Inter-band Intermodulation@2-tone x 20W (dBc)	≤-150		
DC Characteristics (Between part2 to part4)	Black		
Average input power at part 2 (Watt),(Continuous)	>150		
2100 MHz(part3)			
Frequency response Band 2100 MHz(MHz)			
Lower frequency	1920		
Upper frequency	2170		
Impedance (Ohm)	50		
Return loss (dB)	>20		
Insertion loss (Between part3 to part4)(dB)	<0.5		
Isolation (Between part3 to part1)(dB)	>45		
Isolation (Between part3 to part2)(dB)	>45		
In-band Intermodulation@2-tone x 20W (dBc)	≤-150		
Inter-band Intermodulation@2-tone x 20W (dBc)	≤-150		
DC Characteristics (Between part3 to part4)	Pass		
Average input power at part 3 (Watt),(Continuous)	>150		

Physical Specification			
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Connector type	7/16DIN(female)		
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Environmental Specification			
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The diplexer shall have no damage or degradation and its electrical specifications shall be maintained under these conditions			
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Enclosure protection	Better than or equal to IP65		
Operating temperature(°C)	-10~60		
Relative humidity(%)	0~95		

RT Radio Technical Team	Prepared by	Doc.No.	Revision 1
Checked by	Approved by	File 4 3G2100 Filter Combiner Specification_20091019.doc	