

ZERO BIAS SCHOTTKY DIODE DETECTORS

No Bias Required.

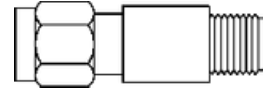
Negative Output Polarity is standard.

Maximum Input Power: 200 mW CW

Operating Temperature Range: -55° C to +125° C Storage

Temperature Range: -65° C to +150° C Solderification @

+25° C, Input Power at -20 dBm



SMA MALE INPUT / SMA FEMALE OUTPUT

MODEL NO.	FREQUENCY RANGE (GHz)	VOLTAGE SENSITIVITY ¹ (MIN. mV/mW)	FLATNESS (MAX. dB)	VSWR (TYPICAL)	PRICE			
					1-24	25-49	50-99	100 +
ST8010	0.01 - 2.0	500	0.20	1.20:1	\$344.80	\$320.66	\$296.53	\$275.84
ST8011	0.01 - 4.0	500	0.30	1.30:1	355.25	330.38	305.52	284.20
ST8012	0.01 - 12.4	500	0.30	1.40:1	340.75	316.90	293.05	272.60
ST8013	0.01 - 18.5	400	0.50	1.50:1	417.95	388.69	359.44	334.36
ST8014	0.01 - 26.5	100	.050 (to 18 GHz)	1.50:1 (to 18 GHz)	449.30	417.85	386.40	359.44
			1.00 (18 to 26.5 GHz)	2.0:1 (18 to 26.5 GHz)				
ST8015	2.0 - 4.0	500	0.20	1.20:1	323.90	301.23	278.55	259.12
ST8016	2.0 - 8.0	500	0.20	1.20:1	386.60	359.54	332.48	309.28

¹ Tss is measured with a 2 MHz video bandwidth and 2 dB NF amplifier.

PIN-PIN DIODE LIMITERS

PASSIVE PIN DIODE LIMITERS

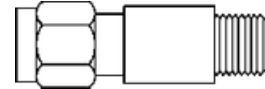
1 Watt CW and 100 Watt S_{pk} (1μsec) power handling

0.1% duty cycle, derated to 20% at +125° C

Internal DC Return

Limiting Threshold above +9 dBm typical

Operating Temperature Range: -55° C to +125° C



SMA MALE INPUT / SMA FEMALE OUTPUT

MODEL NO.	FREQUENCY RANGE (GHz)	INSERTION LOSS ¹ (MAX dB)	VSWR ¹ (MAX)	LEAKAGE @ 1W CW INPUT (MAX. dBm)	PRICE			
					1-24	25-49	50-99	100 +
ST8017	0.5 - 1.0	0.4	1.40:1	+19.0	\$323.90	\$301.23	\$278.55	\$259.12
ST8018	0.5 - 2.0	0.5	1.40:1	+19.0	334.35	310.95	287.54	267.48
ST8019	1.0 - 2.0	0.4	1.40:1	+19.0	323.90	301.23	278.55	259.12
ST8020	2.0 - 4.0	0.8	1.50:1	+18.5	306.25	284.81	263.38	245.00
ST8021	2.0 - 8.0	1.2	1.60:1	+16.0	386.60	359.54	332.48	309.28
ST8022	2.0 - 18.0	2.5	2.20:1	+18.0	397.05	369.26	341.46	317.64
ST8023	4.0 - 8.0	1.2	1.50:1	+16.0	344.80	320.66	296.53	275.84
ST8024	6.0 - 18.0	2.2	2.00:1	+16.0	386.60	359.54	332.48	309.28
ST8025	7.0 - 12.0	1.5	1.80:1	+16.0	365.70	340.10	314.50	292.56
ST8026	8.0 - 16.0	2.0	2.00:1	+16.0	376.15	349.82	323.49	300.92
ST8027	11.0 - 18.0	2.2	2.20:1	+16.0	417.95	388.69	359.44	334.36

¹ Insertion loss and VSWR are measured at -10 dBm.

PIN-SCHOTTKY DIODE LIMITERS

DETECTOR ACTIVATED LIMITERS

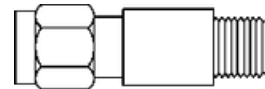
1 Watt CW and 200 Watt S_{pk} (1μsec) power handling

0.1% duty cycle, derated to 20% at +125° C

Internal DC Blocks

Limiting Threshold below +9 dBm typical

Operating Temperature Range: -55° C to +125° C



SMA MALE INPUT / SMA FEMALE OUTPUT

MODEL NO.	FREQUENCY RANGE (GHz)	INSERTION LOSS ¹ (MAX dB)	VSWR ¹ (MAX)	LEAKAGE @ 1W CW INPUT (MAX. dBm)	PRICE			
					1-24	25-49	50-99	100 +
ST8028	0.5 - 1.0	0.5	1.40:1	+14.0	\$313.45	\$291.51	\$269.57	\$250.76
ST8029	0.5 - 2.0	0.6	1.40:1	+14.0	334.35	310.95	287.54	267.48
ST8030	1.0 - 2.0	0.6	1.40:1	+14.0	323.90	301.23	278.55	259.12
ST8031	2.0 - 4.0	0.8	1.50:1	+14.0	344.80	320.66	296.53	275.84
ST8032	2.0 - 8.0	1.4	1.60:1	+14.0	323.90	301.23	278.55	259.12
ST8033	2.0 - 18.0	2.5	2.50:1	+14.0	397.05	369.26	341.46	317.64
ST8034	4.0 - 8.0	1.4	1.50:1	+13.0	334.35	310.95	287.54	267.48
ST8035	6.0 - 18.0	2.5	2.20:1	+13.0	397.05	369.26	341.46	317.64
ST8036	7.0 - 12.0	2.0	1.80:1	+12.0	386.60	359.54	332.48	309.28
ST8037	8.0 - 16.0	2.2	1.80:1	+12.0	386.60	359.54	332.48	309.28
ST8038	11.0 - 18.0	2.5	2.20:1	+12.0	417.95	388.69	359.44	334.36

¹ Insertion loss & VSWR are measured at -10 dBm.

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