

ESS1080A3 Biased Schottky Diode Detector

SMA-F/SMA-M Negative Output Polarity

1.0 to 18.0 GHz Broadband



Product Export Classification
 ECCN: EAR99 (Unless otherwise specified)
 HTS: 8542330000

Technical Characteristics

Product Features

- High Dynamic Range @100 uA typ. bias
- Flat Frequency Response
- Ultra Wideband and Ultra fast
- Low Video Output Resistance (350 ohms typ.)
- Negative Polarity is Standard
- High Reliability Hermetically Sealed Coax
- RoHS Compliant

Max. Ratings

Storage Temperature:	-65°C to +125°C
Operating Temperature:	-55°C to +90°C
Maximum input power:	100mW

Electrical Specifications

Parameters	Freq. (GHz)	Min.	Typical	Max.	Units
Voltage Sensitivity	1.0 to 18.0 GHz	1500			mV/mW
Bias			100		μA
Tangential Sensitivity	1.0 to 18.0 GHz		-52		dBm
Flatness	1.0 to 18.0 GHz		0.8		+/-dB
Video Capacitance			50		pF
CW Power Handling				200	mWatts
Tss	1.0 to 18.0 GHz		-52		dBm
Operating Temperature		-55		125	°C

NOTES:

- TSS is measured with a 2 MHz video bandwidth and 2dB NF amplifier.
- Typical values are measured at +25°C and are not guaranteed.

Outline Drawing

