# ESS0112A3 Bias Schottky Diode Detector

SMA-F/SMA-M Negative Output Polarity 0.1 to 12.4 GHz Broadband



#### **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	
ified)	Storage Temperature:	Storage temperature range: -65°C to +125°C
	Operating Temperature:	Operating temperature range: -55°C to +90°C
	Maximum input power:	Maximum input power: 200mW

**Product Export Classification** ECCN: EAR99 (Unless otherwise specifi HTS: 8542330000

## **Electrical Specifications**

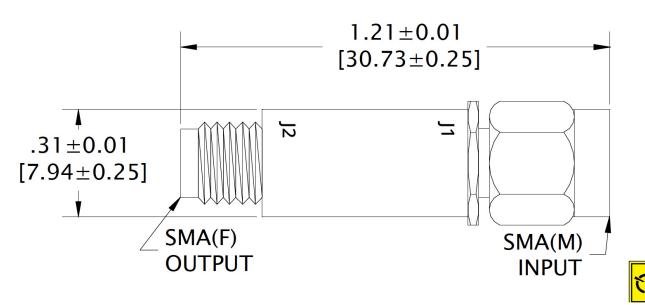
Parameters	Freq. (GHz)	Min.	Typical	Max.	Units			
Voltage Sensitivity	.01 to 12.0 GHz	1800			mV/mW			
Bias			100		μΑ			
Tangential Sensivitity	.01 to 12.0 GHz		-52		dBm			
Flatness	.01 to 12.0 GHz		0.5		+/-dB			
Video Capacitance			470		pF			
CW Power Handling				200	mWatts			
Operating Temperature		-55		+125	°C			

#### NOTES:

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

2. Typical values are measured at +25°C and are not guaranteed.

### **Outline Drawing**





1.408.526.1100

CAUTION ELECTROSTATIC SENSITIVE DEVICES

