

# EZR0140NB Zero Bias Schottky Detector

SMA-F/SMA-M Negative Output Polarity

0.5 to 4.0 GHz



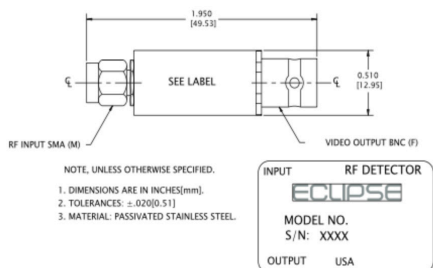
## Technical Characteristics

### Product Features

High Voltage Output Sensitivity
No bias required
Neg. (-) Polarity
Broadband Flat Frequency Response
ECCN: EAR 99 / HTS: 8541.10.0000

### Max. Ratings

Storage Temperature:	-65°C to +100°C
Operating Temperature:	-54°C to +100°C
Maximum input power:	100mW CW



NOTES:  
 Specifications @ +25°C & -20dBm input power

## Electrical Specifications

Parameters	Freq. (GHz)	Min.	Typical	Max.	Units
Voltage Sensitivity	0.5 to 4.0	1000	1200		mV/mW open circuit
Voltage Sensitivity Stability over Temperature	0.5 to 4.0	2.5	3.0	3.5	dB
VSWR	0.5 to 4.0		3.5:1		
Flatness	0.5 to 4.0		1.0	1.2	dB
Polarity			Neg (-)		
Video Capacitance		10	20		pF
CW Power Handling				100	mW
Tss			-48		dBm
Operating Temperature		-54		100	°C

### NOTES:

- 1.Tss is measured with a 2 MHz bandwidth and 3 NF video amplifier.
- 2.Pins 4 & 5–RF Input,Pins 15 & 16–RF Output. All other Pins leave open or ground.
- 3.Typical values are measured at +25° C and are not guaranteed.
- 4.An external bypass (100pf) capacitor is required for operation to minimize RF feedthru.
- 5.Negative output polarity is standard, Add“P” to the end of the model number for Positive, Ex:EZR0120PQFN4.



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## EZR Transfer Curve

