

EZR0140QFN4 ZBD Schottky Detector

0.5-4.0 GHz Power Monitor, High Sensitivity



Technical Characteristics

Product Features

- No bias required
- Neg. (-) Polarity
- Broadband Flat Frequency Response
- Excellent VSWR
- Low Cost QFN 4mm leadless RoHS package

Max. Ratings

Storage Temperature:	-65° to +100°C
Operating Temperature:	-54° to +100°C
Maximum input power:	+27dBm peak, +20dBm CW
Specifications	@ +25° & -20 dBm Input Power

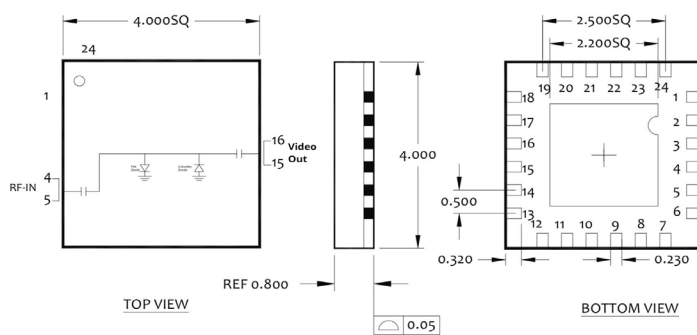
Electrical Specifications

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	3.5	dB
VSWR	0.5 to 4.0			3.5:1	
Flatness	0.5 to 4.0		1	1.2	dB
Polarity			Neg. (-)		eV
Video Capacitance		10	20		pF (Note 3)
Dynamic Range					
Tss			-48		dBm

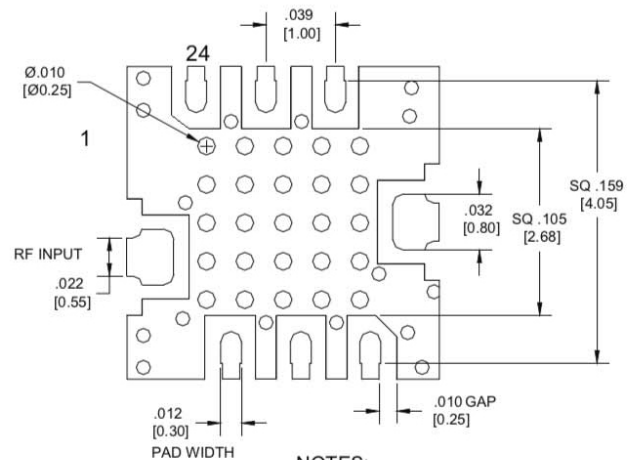
NOTES:

- Tss is measured with a 2MHz bandwidth and a 3dB NF video amplifier.
- Pins 4&5 – RF Input, Pins 15&16 – Video Output
- Typical values are measured at +25°C and are not guaranteed.
- An external bypass (100pf) capacitor is required for operation to minimize RF feedthru.
- Negative output polarity is standard, Add "P" to the end of the model number for Positive, Ex: EZR0140PQFN4

PACKAGE PINOUT



RECOMMENDED PCB LAYOUT



NOTES:

- MATERIAL: ROGERS 4350, 10 MIL THICK
- DIMENSIONS ARE IN INCHES[MM]

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Data Plots

EZR series Transfer Curve

