

Point Contact Detector 10 MHz to 18 GHz

Rev. V5

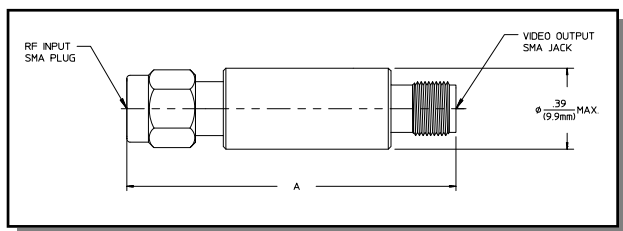
Features

- Broadband Frequency Ranges
- No Bias Required
- Flat Frequency Response
- Passivated Stainless Steel Finish

Specifications

Parameter	Specification
Flatness (Maximum)	± 0.75 dB, 10 MHz to 4 GHz ± 1.25 dB, 4 MHz to 8 GHz ± 1.5 dB, 10 MHz to 12 GHz ± 2.5 dB, 10 MHz to 18 GHz
VSWR (Typical)	1.7:1, 10 MHz to 4 GHz 2.7:1, 10 MHz to 8 GHz 3.5:1, 10 MHz to 12 GHz 4.0:1, 10 MHz to 18 GHz
Maximum Power	100 mW
Output Polarity	Negative ⁴
Video Resistance	6 k Ohms Typical ²
Temperature Range	-65°C to +100°C

Mechanical Outline Drawing



Detector Part Number	Frequency Range ¹ (GHz)	Open Circuit Voltage Sensitivity ² (mV/mW) Min.	Tangential Sensitivity ³ (-dBm) Min.	Output Capacitance (pF) Typical	Dimension A	
					Inches	mm
2087-6001-00	10 MHz to 4 GHz	400	45	12	1.55	39.4
	10 MHz to 8 GHz	500	45	12	1.55	39.4
	10 MHz to 12 GHz	700	45	12	1.55	39.4
	10 MHz to 18 GHz	800	45	12	1.55	39.4

1. Usable to 20 GHz
2. For RF power levels below -20 dBm, and with an open circuit load.
3. With video amplifier of 1 MHz bandwidth and 2 dB noise figure.
4. For Positive Output change suffix to -13.

Mouser Electronics

Authorized Distributor

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MACOM:

[2087-6001-00](#) [2087-6001-13](#)