

Point Contact Detector 10 MHz to 18 GHz

Rev. V5

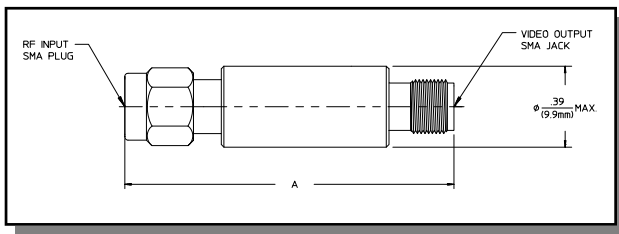
Features

- 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.