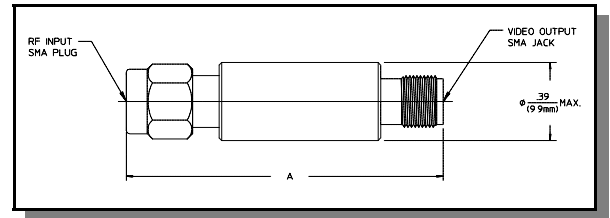


Specifications

| Parameter | Specification |
|-----------------------|--|
| Bias Current | 0 |
| Output Polarity | Negative ⁴ |
| Video Resistance | 80 Ohms Nominal ² |
| Maximum Power | 40 mW CW or 3 erg spike |
| Temperature Stability | ± 1 dB over operating range of -65°C to +100°C |
| Temperature Range | -65°C to +100°C |
| Finish | Passivated Stainless Steel |

Mechanical Outline Drawing



| Detector Part Number | Frequency Range (GHz) | Flatness ¹ Typical (± dB) | VSWR ¹ Typical | Open Circuit Sensitivity ² (mV/mW) | | Tangential Sensitivity ³ (-dBm) | | Output Capacitance Typical (pF) | Dim. A Inches (mm) |
|----------------------|-----------------------|--------------------------------------|---------------------------|---|------|--|------|---------------------------------|--------------------|
| | | | | Typ. | Min. | Typ. | Min. | | |
| 2085-6010-00 | 1.0 - 18.0 | 1.5 | 4.0 | 500 | 400 | 47.0 | 46.0 | 12 | 1.35 (34.3) |
| 2085-6013-00 | 1.0 - 2.0 | 0.2 | 2.5 | 780 | 700 | 53.0 | 52.0 | 18 | 1.35 (34.3) |
| 2085-6014-00 | 2.0 - 4.0 | 0.3 | 1.8 | 840 | 750 | 53.5 | 52.5 | 18 | 1.55 (39.4) |
| 2085-6015-00 | 4.0 - 8.0 | 0.4 | 2.5 | 610 | 525 | 52.0 | 51.0 | 12 | 1.55 (39.4) |
| 2085-6016-00 | 8.0 - 12.4 | 0.5 | 2.0 | 640 | 550 | 52.5 | 51.5 | 12 | 1.55 (39.4) |
| 2085-6017-00 | 12.4 - 18.0 | 0.5 | 2.5 | 600 | 500 | 52.0 | 51.0 | 9 | 1.55 (39.4) |

Typical Extended Band Performance

| Detector Part Number | Frequency Range (GHz) | Flatness ¹ Typical (± dB) | VSWR ¹ Typical | Open Circuit Sensitivity ² (mV/mW) Typical | Tangential Sensitivity ³ (-dBm) | Output Capacitance Typical (pF) |
|----------------------|-----------------------|--------------------------------------|---------------------------|---|--|---------------------------------|
| 2085-6013-00 | 0.85 - 6.0 | 1.0 | 3:1 | 500 | 50.0 | 18 |
| 2085-6014-00 | 1.4 - 5.0 | 1.0 | 3:1 | 500 | 50.0 | 18 |
| 2085-6015-00 | 3.9 - 9.5 | 1.0 | 3:1 | 500 | 50.0 | 12 |
| 2085-6016-00 | 6.5 - 14.0 | 1.0 | 3:1 | 400 | 49.0 | 12 |
| 2085-6017-00 | 2.7 - 18.5 | 1.0 | 3:1 | 400 | 49.0 | 9 |

1. For RF Power levels below -20 dBm, and with 1,000 ohm load.
2. For RF power levels below -20 dBm.
3. With video amplifier of 1 MHz bandwidth, and 2 dB noise figure.
4. For Positive Output change suffix to -13.