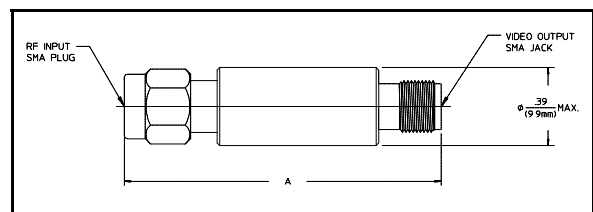


## Specifications

| Parameter             | Specification                                  |
|-----------------------|--|
| Bias Current          | 0  |
| Output Polarity       | Negative <sup>4</sup>                          |
| Video Resistance      | 80 Ohms Nominal <sup>2</sup>                   |
| 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 <sup>1</sup> Typical (± dB) | VSWR <sup>1</sup> Typical | Open Circuit Sensitivity <sup>2</sup> (mV/mW) |      | Tangential Sensitivity <sup>3</sup> (-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 <sup>1</sup> Typical (± dB) | VSWR <sup>1</sup> Typical | Open Circuit Sensitivity <sup>2</sup> (mV/mW) Typical | Tangential Sensitivity <sup>3</sup> (-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.