

Broadband Detector, Model DE-2

Description:

Spacek Labs Model DE-2 is a full-band, 60-90 GHz detector. This detector is a very cost effective way of measuring power in the E-band spectrum. The RF input is WR-12 (UG387/U) and the output is SMA (F). These detectors can be used as fast data rate receivers, with up to 3 GHz bandwidth at the 3 dB point into a 50 Ohm load. Using a 10 megohm load the sensitivity is 1500 mV/mW at -20 dBm input power. Flatness across the band is ± 2 dB with a typical tangential sensitivity of -45 dBm in a 1 MHz video bandwidth. Maximum input power is +18 dBm. This detector is available with positive (P) or negative (N) output polarity.

Features:

- Extremely rugged and compact
- Available in waveguide bandwidths from 18 to 110 GHz
- Our detectors can be made to extend frequency counters (up to 110 GHz)

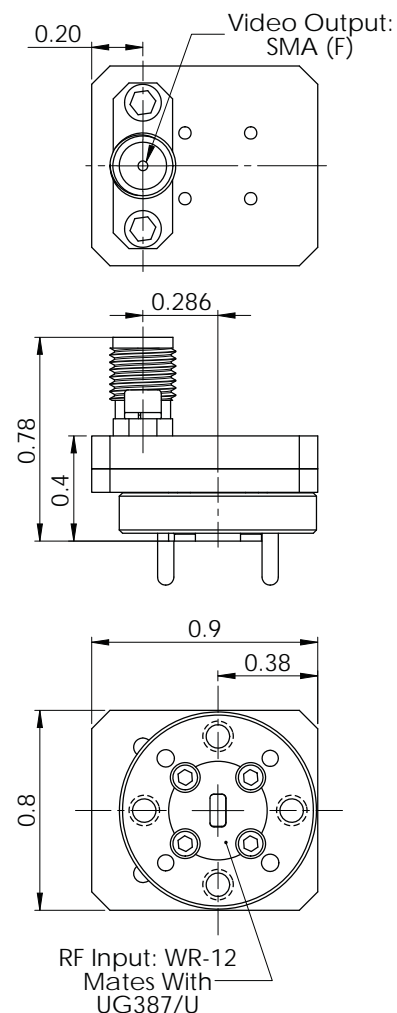
Electrical Specifications:

| Description | Min. | Typ. | Max. |
|-----------------------|--------|------------|--------|
| Frequency (GHz) | 60 GHz | - | 90 GHz |
| Sensitivity (mV/mW)* | - | 2000 | - |
| Flatness (dB) | - | ± 2 dB | - |
| Max Input Power (dBm) | - | - | 18 dBm |

* @ -20 dBm input power

Mechanical Specifications:

| Description | Specification |
|-------------------|----------------|
| Connector, Input | WR-12, UG387/U |
| Connector, Output | SMA (F) |
| Dimensions OA | See outline |
| Material | Brass |
| Finish | Gold |
| Weight | 2.0 oz |



OUTLINE: DIMENSIONS IN INCHES (NOT TO SCALE)

BROADBAND DETECTORS

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Notes: Product data is periodically updated to reflect product / raw material / process / testing changes. This data should not be used as guaranteed specifications. Please contact Spacek Labs to make sure you have the most current data.