

Description

Mi-Wave's 950 Series Detectors convert incident RF energy into a DC voltage signal. The function of these detectors is similar to power sensors, with two exceptions. The 950 Series detectors perform measurements more quickly and have a greater dynamic range than that obtainable from comparable power sensors.

- Full Waveguide Band
- High Video Sensitivity
- No Bias Voltage Required
- Lightweight Compact Design

Ideally suited for rapid power measurements, these finline detectors are designed for a variety of instrumentation setups such as scalar analyzer applications. For low signal level measurement, the detectors provide significantly more sensitivity than that available from power sensors.



| Technical Specifications (typical) | | | | | | | | | | | | |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|----------|---------|-----------|-----------|-----------|
| Model Number | 950K | 950A | 950B | 950U | 950V | 950E | 950W | 950F | 950D | 950G | 950H | 950J |
| Frequency Input (GHz) | 18.0–26.5 | 26.5–40.0 | 33.0–50.0 | 40.0–60.0 | 50.0–75.0 | 60.0–90.0 | 75.0–110.0 | 90–140.0 | 110–170 | 140 - 220 | 170 - 260 | 220 - 375 |
| Video Sensitivity (mV/mW) Typ. | 2500 | 2300 | 2000 | 1800 | 1200 | 1100 | 1000 | 900 | 800 | 500 | 500 | 500 |
| Tangential Sensitivity | -55 | -55 | -50 | -50 | -50 | -45 | -45 | -45 | -40 | -40 | -40 | -35 |
| Flatness (dB) | ±1.5 | ±1.5 | ±1.5 | ±1.5 | ±2.0 | ±2.0 | ±2.0 | ±2.0 | ±2.5 | ±2.5 | ±2.5 | ±2.5 |

* Detectors are tested at -20dBm power level and extrapolated to 1mw power level

Detectors up to 220 GHz are now available.

Consult Mi-Wave for technical specifications.

Ordering Information

