Clear Microwave
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Detector

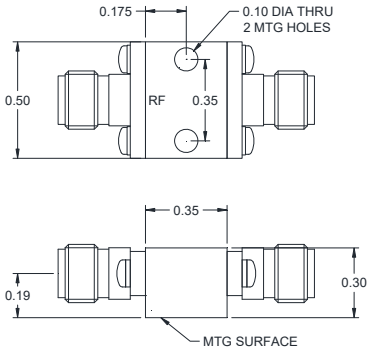
DMV312 0.03 – 12 GHz RF Matched Negative Schottky Detector

FEATURES

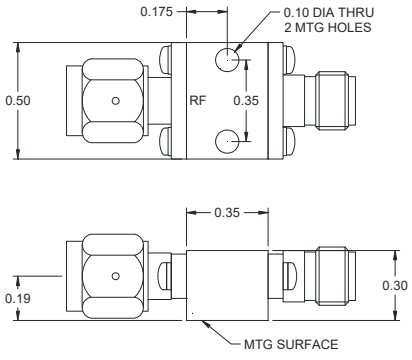
- Excellent Flatness vs. Frequency
- Excellent Input RF Matching
- Mounting Holes Option
- No Bias Required

SPECIFICATIONS

0.03 – 12 GHz RF Matched Negative Schottky Detector	
Model Number	DMV312
Frequency Range	0.03 – 12 GHz
Sensitivity	800 mV/mW Typ., 500 mV/mW Min.
Flatness vs. Frequency	±0.90 dB Typ., ±1.20 dB Max.
RF Input VSWR	1.35:1 Typ., 1.45:1 Max.
TSS	-40 dBm Typ.
Maximum Input Power	+20 dBm
Output Polarity	Negative
Connector Type	SMA Female (optional connector see the notes)
Impedance	50 Ω



SMA Female-Female Version



SMA Male-Female Version

Design to meet the following environmental ratings: (verification optional)

1. Operating Temp: -55°C to +85°C
2. Storage Temp: -65°C to +125°C
3. Shock: MIL-STD-202F, M213, Cond B
4. Altitude: MIL-STD-202F, M105, Cond B
5. Vibration: MIL-STD-202F, M204, Cond B
6. Thermal Shock: MIL-STD-202F, M107, Cond A
7. Temp. Cycle: MIL-STD-202F, M105C, Cond D
8. Humidity: MIL-STD-202F, M103, Cond B
   (Optional with Hysol epoxy seal)

Standard Finishing: Rugged Aluminum Housing. Optional finishing with blue epoxy paint per MIL-C-22750 available on request to meet the humidity specification MIL-STD-202F, M103, Cond B

Note:

1. Works very well down to 1 MHz frequency with some degradation of flatness vs. frequency
2. The standard connector is SMA female, suffix MF for SMA male (RF) and SMA female (detection) version
3. The sensitivity is measured at -20 dBm input power with an open circuit load (>10k Ohm)
4. Other frequency range available on request