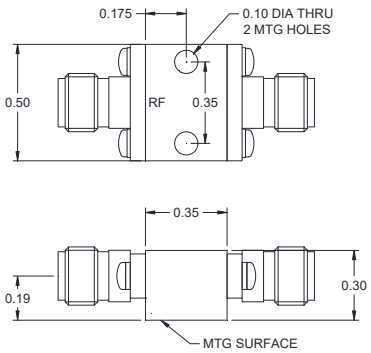
DG1840 18 – 40 GHz Zero Bias Negative Schottky Detector

FEATURES

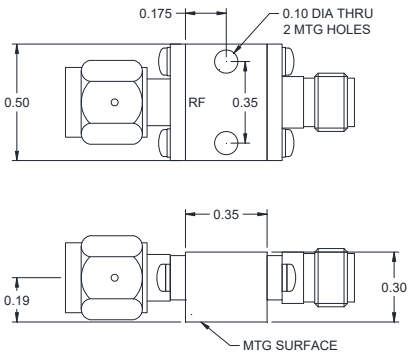
- Excellent Flatness vs. Frequency
- Excellent Input RF Matching
- Mounting Holes Option
- No Bias Required

SPECIFICATIONS

18 – 40 GHz Zero Bias Negative Schottky Detector	
Model Number	DG1840
Frequency Range	18 – 40 GHz
Sensitivity	600 mV/mW Typ., 250 mV/mW Min.
Flatness vs. Frequency	±1.80 dB Typ., ±2.50 dB Max.
TSS	-40 dBm Typ.
Maximum Input Power	+20 dBm
Output Polarity	Negative
Connector Type	RF 2.92 mm Female, Detection: SMA Female
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. The standard connector is 2.92 mm female for RF input and SMA female for detection output, suffix MF for 2.92 mm male for RF input and SMA female for detection output
2. The sensitivity is measured at -20 dBm input power with an open circuit load (>10k Ohm)
3. Other frequency range available on request