



## DG3018 0.3 – 18 GHz Zero Bias Negative Schottky Detector

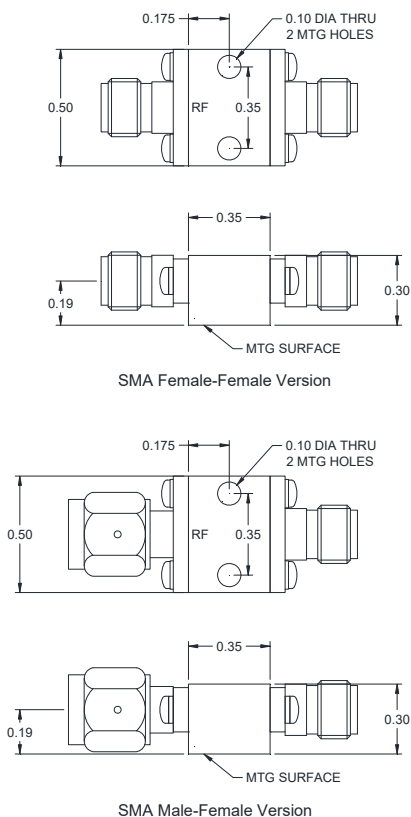
### FEATURES

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



### SPECIFICATIONS

<b>0.3 – 18 GHz Zero Bias Negative Schottky Detector</b>	
Model Number	DG3018
Frequency Range	0.3 – 18 GHz
Sensitivity	1800 mV/mW Typ., 1200 mV/mW Min.
Flatness vs. Frequency	$\pm 0.50$ dB Typ., $\pm 0.80$ dB Max.
TSS	-40 dBm Typ.
Maximum Input Power	+20 dBm
Output Polarity	Negative
Connector Type	SMA Female (optional connector see the notes)
Impedance	50 $\Omega$



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 SMA female, suffix MF for SMA male (RF) and SMA female (detection) version
2. The sensitivity is measured at -20 dBm input power with an open circuit load (>10k Ohm)
3. Other frequency range available on request