

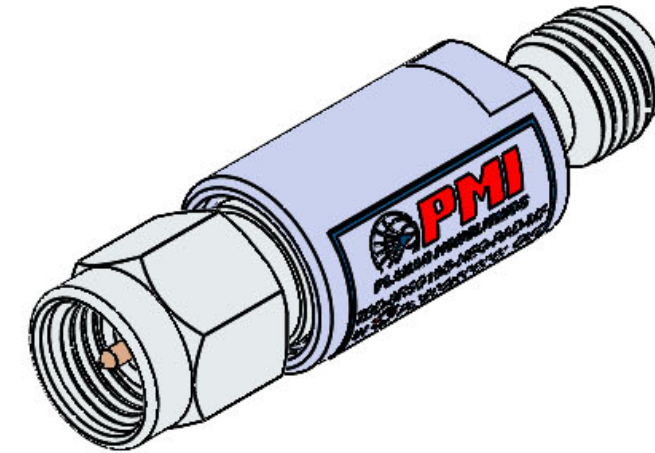
DESCRIPTION:

PMI MODEL NUMBER ZBD-0R5G18G-NEG-RAD-MF-ROHS IS A ZERO BIAS SCHOTTKY DIODE DETECTOR OPERATING OVER THE 0.5 GHZ TO 18.0 GHZ FREQUENCY RANGE

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/13/2026	

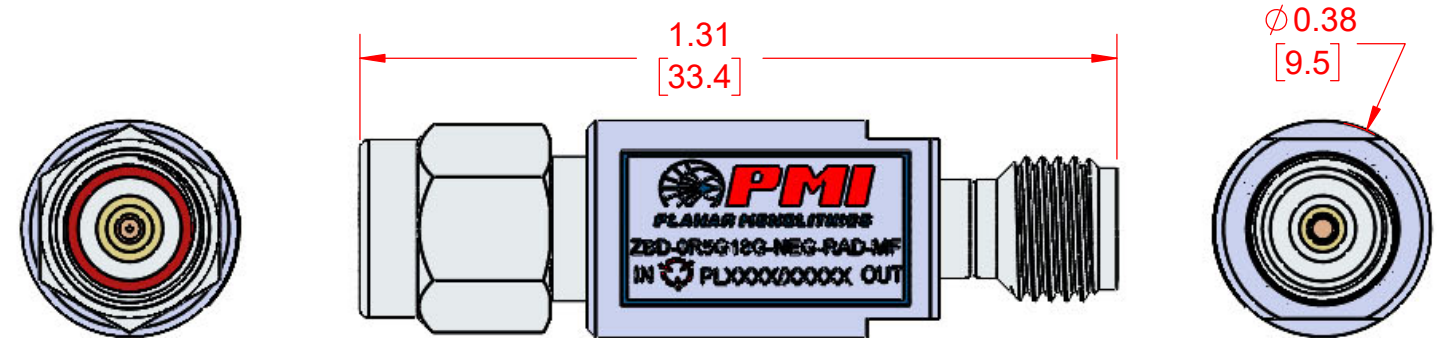
SPECIFICATIONS:

- FREQUENCY RANGE:..... 0.5 GHz TO 18.0 GHz
- VSWR (INPUT):..... 1.5 : 1 TYP
2.0 : 1 MAX
- FREQUENCY FLATNESS:..... ±3.5 dB MAX
SQUARE-LAW REGION
(-25 dBm TO -10 dBm)
- MAX INPUT POWER:..... 100 mW
- SENSITIVITY:..... 0.5 ± 0.05 mV/μW TYP
SQUARE-LAW REGION
(-25 dBm TO -10 dBm)
- POLARITY:..... NEGATIVE
- CAPACITANCE:..... 30 pF TYP
(WITH 50 Ω RG 58 CABLE < 2FT)
- CONNECTORS:..... 2.92 MALE (IN)/ 2.92 FEMALE (OUT)
- FINISH:..... ALBALOY PLATED



NOTE 1: CW MEASUREMENTS PERFORMED WITH 50 Ω RF SOURCE AND HIGH-IMPEDENCE OUTPUT LOAD

NOTE 2: PULSED MEASUREMENTS PERFORMED USING AN EXTERNAL 50 Ω TERMINATION THROUGH A T-CONNECTOR FOR PROPER PULSE SHAPING. OUTPUT VOLTAGE MEASURED AT 1M Ω OSCILLOSCOPE INPUT



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -54°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		APPROVALS	DATE	 7309-A GROVE ROAD FREDERICK, MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED		
		DRAWN VP	3/13/2026			
REDRAWN				ZBD-0R5G18G-NEG-RAD-MF-ROHS		
ISSUED		SIZE B	FSCM NO. 05XQ0	DWG NO. 27054240	REV. A1	
		SCALE 3:1			SHEET 1 OF 1	