

DESCRIPTION:

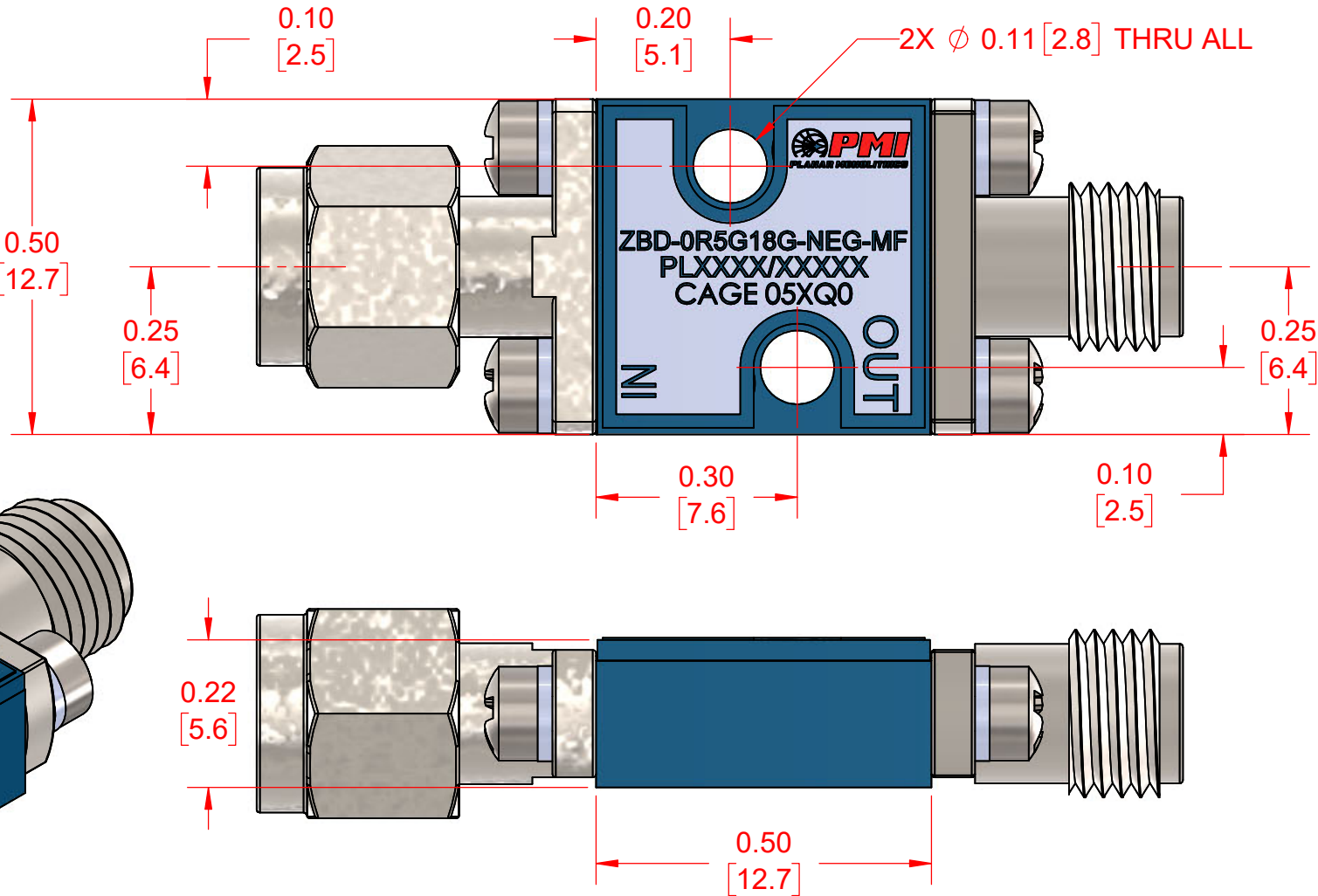
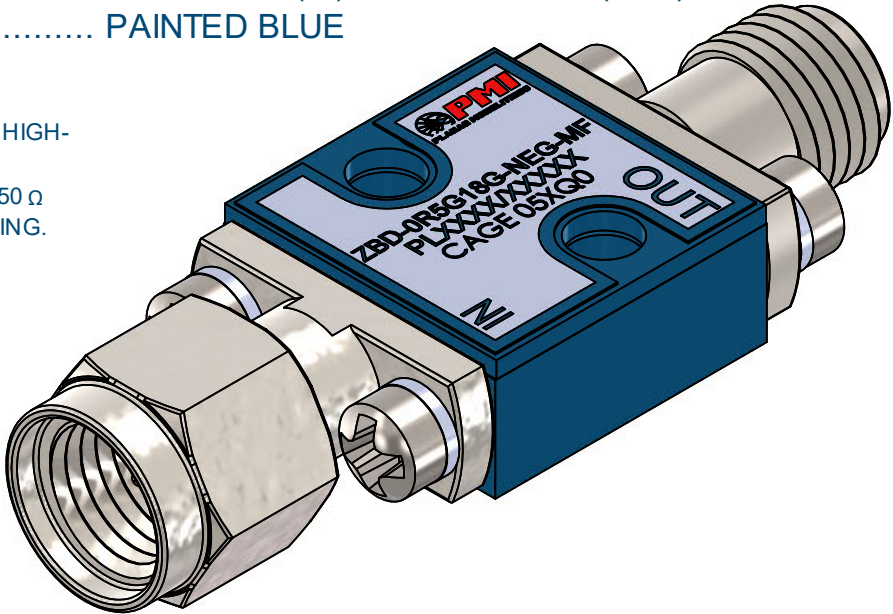
PMI MODEL NUMBER ZBD-0R5G18G-NEG-MF-ROHS IS A ZERO BIAS SCHOTTKY DIODE DETECTOR OPERATING OVER THE 0.5 GHZ TO 18.0 GHZ FREQUENCY RANGE

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
1.0 mV/μW MAX
SQUARE-LAW REGION
(-25 dBm TO -10 dBm)
- POLARITY:..... NEGATIVE
- CAPACITANCE:..... 30 pF TYP
(WITH 50 Ω RG 58 CABLE < 2FT)
- CONNECTORS:..... SMA MALE (IN)/ SMA FEMALE (OUT)
- FINISH:..... PAINTED BLUE

NOTE 1: CW MEASUREMENTS PERFORMED WITH 50 Ω RF SOURCE AND HIGH-IMPEDANCE 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 1MΩ OSCILLOSCOPE INPUT



ENVIRONMENTAL RATINGS:

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

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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	PMI PLANAR MONOLITHICS 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	TITLE			
REDRAWN			OUTLINE			
ISSUED			ZBD-0R5G18G-NEG-MF-ROHS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01 ±		SIZE	FSCM NO.	DWG NO.	REV.	SHEET 1 OF 1
		B	05XQ0	27054280	A1	
		SCALE 4:1				