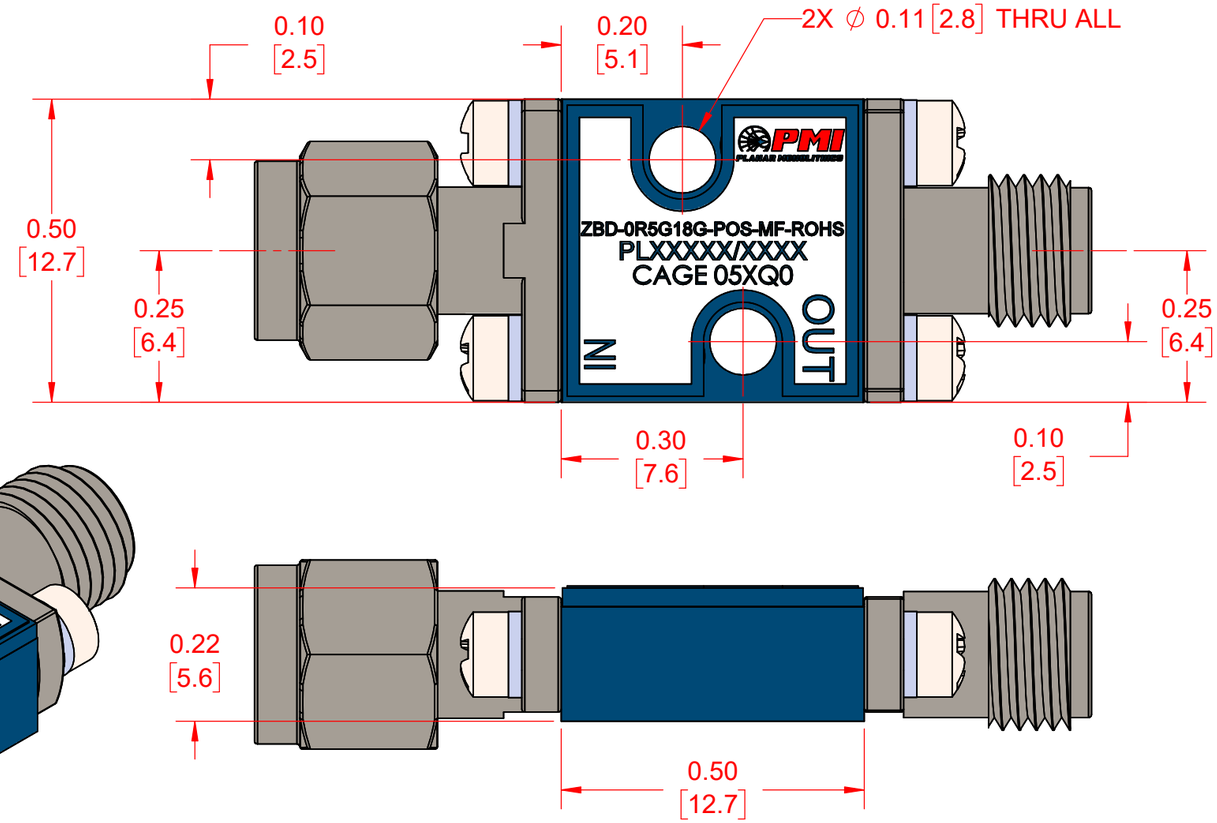
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/13/2026	

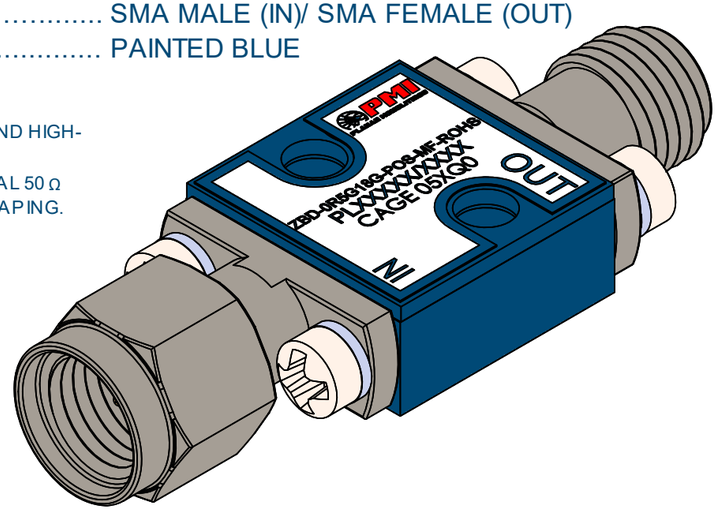
DESCRIPTION:

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

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
- SENSITVITY:..... 0.5 ± 0.05 mV/µW TYP
  1 mV/µW MAX
  SQUARE-LAW REGION
  (-25 dBm TO -10 dBm)
- POLARITY:..... POSITIVE
- 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-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 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
DRAWN VP	3/13/2026
REDRAWN	
ISSUED	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± | DECIMALS .XX ± 0.02, .XXX ± 0.01 | ANGLES ±

PMI
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ISO 9001 CERTIFIED

TITLE: OUTLINE
ZBD-0R5G18G-POS-MF-ROHS

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27054260	A1

SCALE 4:1 SHEET 1 OF 1