

DESCRIPTION

PMI MODELDD-20-218-5PF-3-P-M-OPT48 IS A HIGH SPEED, HIGH SENSITIVITY DIODE DETECTOR REQUIRING NO BIAS AND OFFERING EXCELLENT TEMPERATURE STABILITY, WITH A RESPONSE TIME OF LESS THAN 5 NANOSECONDS. THE FREQUENCY RANGE IS 4 TO 8 GHz.

SPECIFICATIONS

- FREQUENCY RANGE: 4 TO 8 GHz
- VSWR IN/OUT: 2.5:1 MAX (MEASURED @ -23 dBm)
- FREQUENCY FLATNESS: ±0.4 dB
- RISE/FALL TIME: 5 ns TYP
- VOLTAGE SENSITIVITY: 750 mV/mW TYP
- TANGENTIAL SENSITIVITY: -50 dBm @ 2 MHz VIDEO BANDWIDTH (WITH 2 dB NOISE FIGURE AMPLIFIER)
- VIDEO CAPACITANCE: 5.6 pF TYP
- OUTPUT VOLTAGE: POSITIVE IS STANDARD (NEGATIVE IS AVAILABLE)
- MAX INPUT POWER: +14 dBm and +17 dBm possible burnout
- CONNECTORS: SMA (M) INPUT & SMA (F) OUTPUT
- FINISH: PAINTED BLUE
- SIZE: (L) 0.50" x (W) 0.50" x (H) x 0.22"

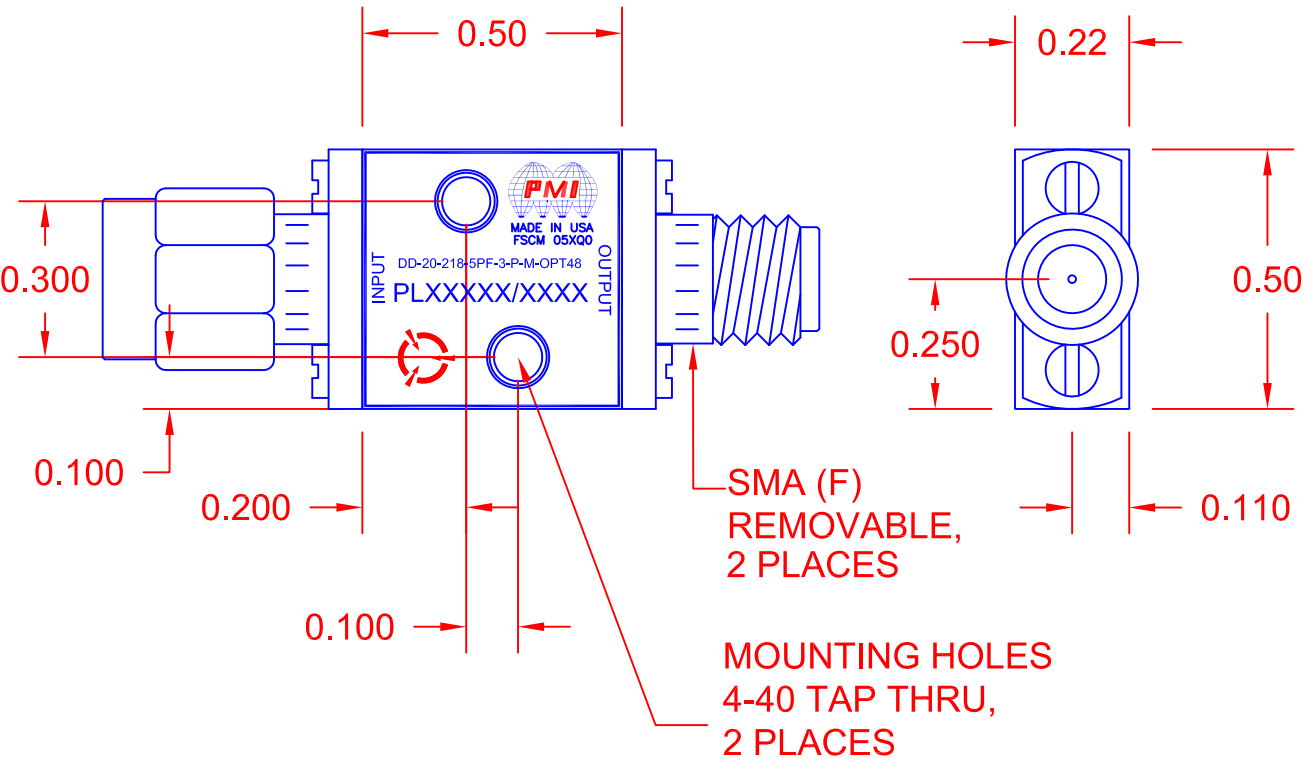
ENVIRONMENTAL RATINGS

- TEMPERATURE: -54°C TO +85°C (OPERATING)
-65°C TO +100°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	4/10/19	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE			
DRAWN		SPH		4/10/19		PRODUCT FEATURE	
CHECKED						DD-20-218-5PF-3-P-M-OPT48	
ISSUED						HIGH SPEED HIGH SENSITIVITY DIODE DETECTOR	
SIZE		FSCM NO.		DWG NO.		REV.	
A		05XQ0		PRELIMINARY		-	
SCALE		2/1		SHEET		1 OF 1	