

DESCRIPTION

PMI MODEL DD-812-9PF-P-SMF 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 8 TO 12 GHz.

SPECIFICATIONS

- FREQUENCY RANGE: 8 TO 12 GHz
- VSWR IN/OUT: 2.4:1 TYP
- FREQUENCY FLATNESS: ±0.4 dB MAX
- RISE TIME: 5 ns TYP
- VOLTAGE SENSITIVITY: 700 mV/mW MIN
- TANGENTIAL SENSITIVITY: -50 dBm @ 2 MHz VIDEO BANDWIDTH (WITH 2 dB NOISE FIGURE AMPLIFIER)
- VIDEO CAPACITANCE: 9.0 pF NOMINAL
- OUTPUT VOLTAGE: POSITIVE (NEGATIVE IS AVAILABLE)
- MAX INPUT POWER: +20 dBm
- CONNECTORS: SMA (M) INPUT & SMA (F) OUTPUT
- FINISH: PAINTED BLUE
- SIZE: (L) 0.50" x (W) 0.50" x (H) x 0.22"

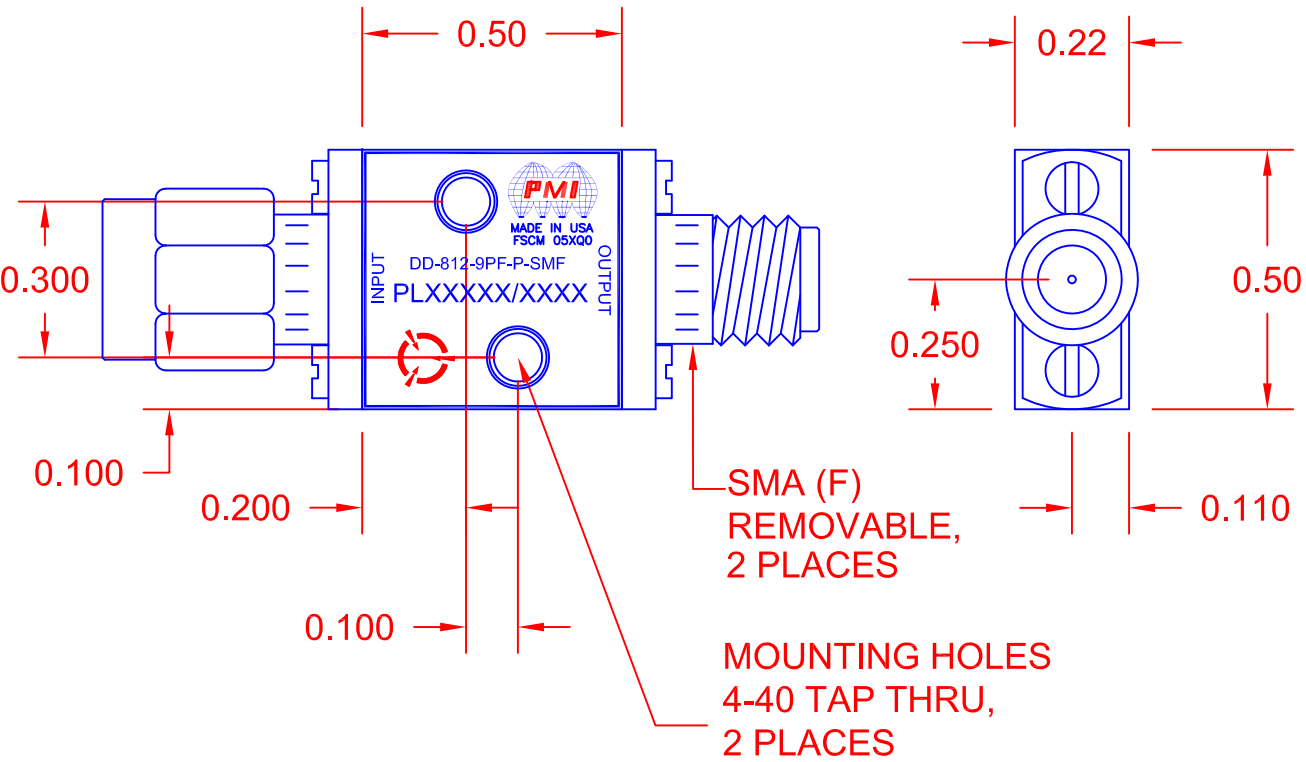
ENVIRONMENTAL RATINGS

- 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	1/23/19	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE			
DRAWN		SP		1/23/19		PRODUCT FEATURE	
CHECKED						DD-812-9PF-P-SMF	
ISSUED						HIGH SPEED HIGH SENSITIVITY DIODE DETECTOR	
SIZE		FSCM NO.		DWG NO.		REV.	
A		05XQ0		PRELIMINARY		-	
SCALE		2/1				SHEET	
						1 OF 1	

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
.XX ±0.01
.XXX ±0.005