

## DESCRIPTION

PMI MODEL DD-1020-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 10 TO 20 GHz.

## SPECIFICATIONS

- FREQUENCY RANGE: \_\_\_\_\_ 10 TO 20 GHz
- VSWR IN/OUT: \_\_\_\_\_ 2.5:1 MAX (MEASURED @ -23 dBm)
- FREQUENCY FLATNESS: \_\_\_\_\_  $\pm 1.0$  dB
- RISE TIME: \_\_\_\_\_ 10 ns TYP
- VOLTAGE SENSITIVITY: \_\_\_\_\_ 500 mV/mW
- 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: \_\_\_\_\_ +20 dBm
- MIN 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

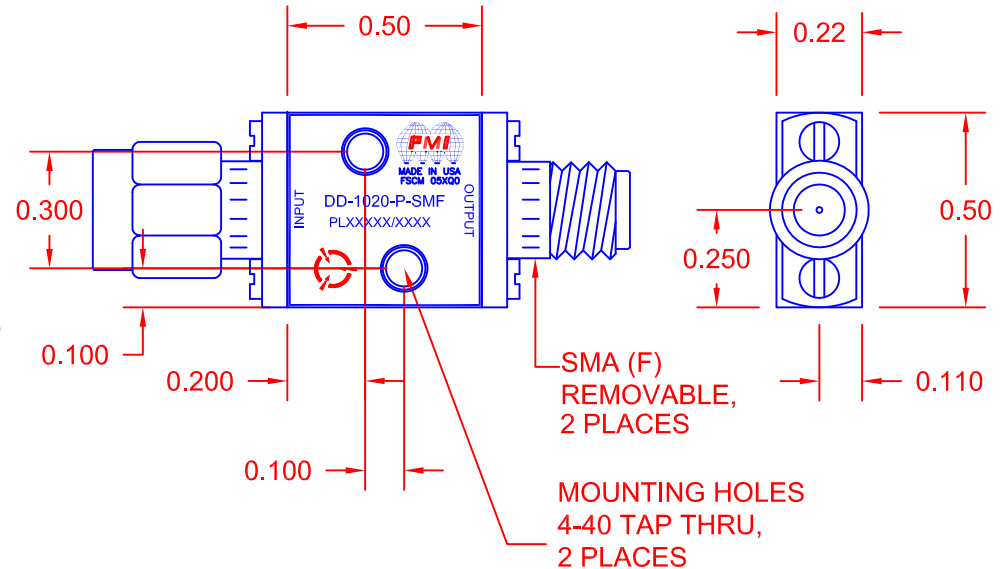
- TEMPERATURE: \_\_\_\_\_ -54°C TO +85°C (OPERATING)  
\_\_\_\_\_ -65°C TO +100°C (STORAGE)
- HUMIDITY: \_\_\_\_\_ MIL-STD-202F, METHOD 103B COND. B
- SHOCK: \_\_\_\_\_ MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: \_\_\_\_\_ MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: \_\_\_\_\_ MIL-STD-202F, METHOD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

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
.XX  $\pm 0.01$   
.XXX  $\pm 0.005$

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/16/22	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001: CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN AF		11/16/22	PRODUCT FEATURE DD-1020-P-SMF HIGH SPEED HIGH SENSITIVITY DIODE DETECTOR		
CHECKED			SIZE A	FSCM NO.	DWG NO.
ISSUED			PRELIMINARY		REV. -
SCALE 2/1				SHEET 1 OF 1	