

DESCRIPTION

PMI MODEL: DD-20-218-5PF-1-N-FM-OPT0518 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. THIS MODEL OPERATES OVER THE 0.5 TO 18 GHz FREQUENCY RANGE.

SPECIFICATIONS

- FREQUENCY RANGE: 0.5 TO 18 GHz
- VSWR IN/OUT: 3.5:1 TYP
(MEASURED @ -23 dBm WITH 27 kΩ IMPEDANCE)
- FREQUENCY FLATNESS: ±1.5 dB, ±1.0 dB TYP
- SPEED: 5 ns
- VOLTAGE SENSITIVITY: 650 mV/mW, 700 mV/mW TYP
- TANGENTIAL SENSITIVITY: -50 dBm @ 2 MHz VIDEO BANDWIDTH
- VIDEO CAPACITANCE: 5.6 pF
- OUTPUT VOLTAGE: NEGATIVE (POSITIVE IS AVAILABLE)
- MAX INPUT POWER: +17 dBm
- CONNECTORS: SMA (F) INPUT & SMA (M) OUTPUT
- SIZE: 0.5" X 0.5" X 0.22" (EXCLUDING CONNECTORS)
- FINISH: BLUE EPOXY POLIMIDE COATING IAW
MIL-C-22750, TYPE I OVER EPOXY POLIMIDE
PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3

ENVIRONMENTAL RATINGS

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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

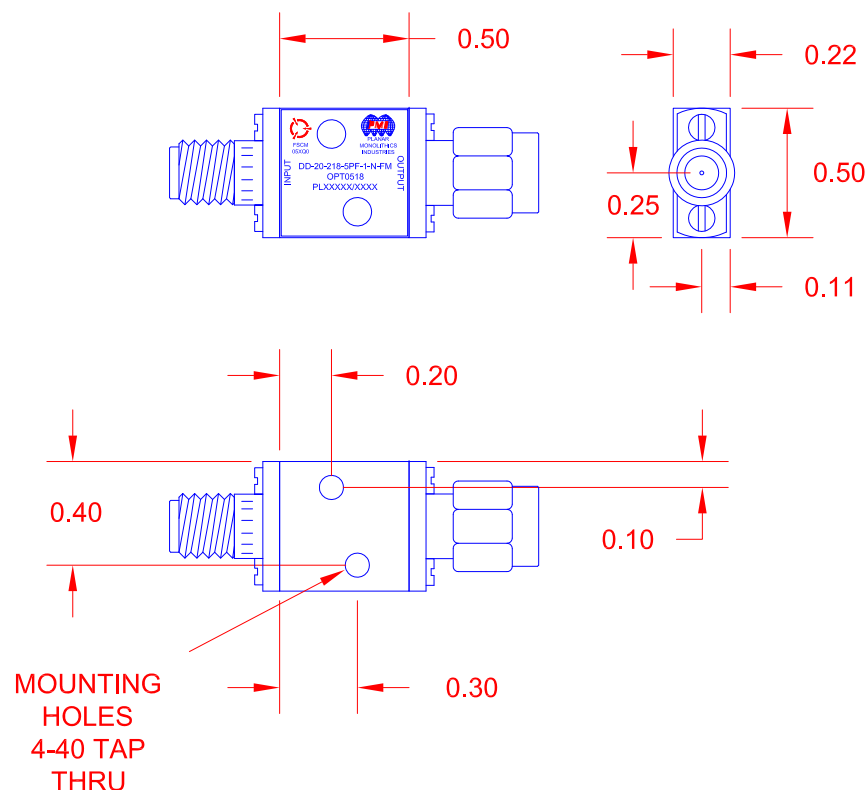
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS
ARE IN INCHES (mm)
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	10/14/16	JD, PK

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN		10/28/15	PRODUCT FEATURE		
CHECKED			DD-20-218-5PF-1-N-FM-OPT0518		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	27031045
			SCALE	N:S	SHEET 1 OF 1