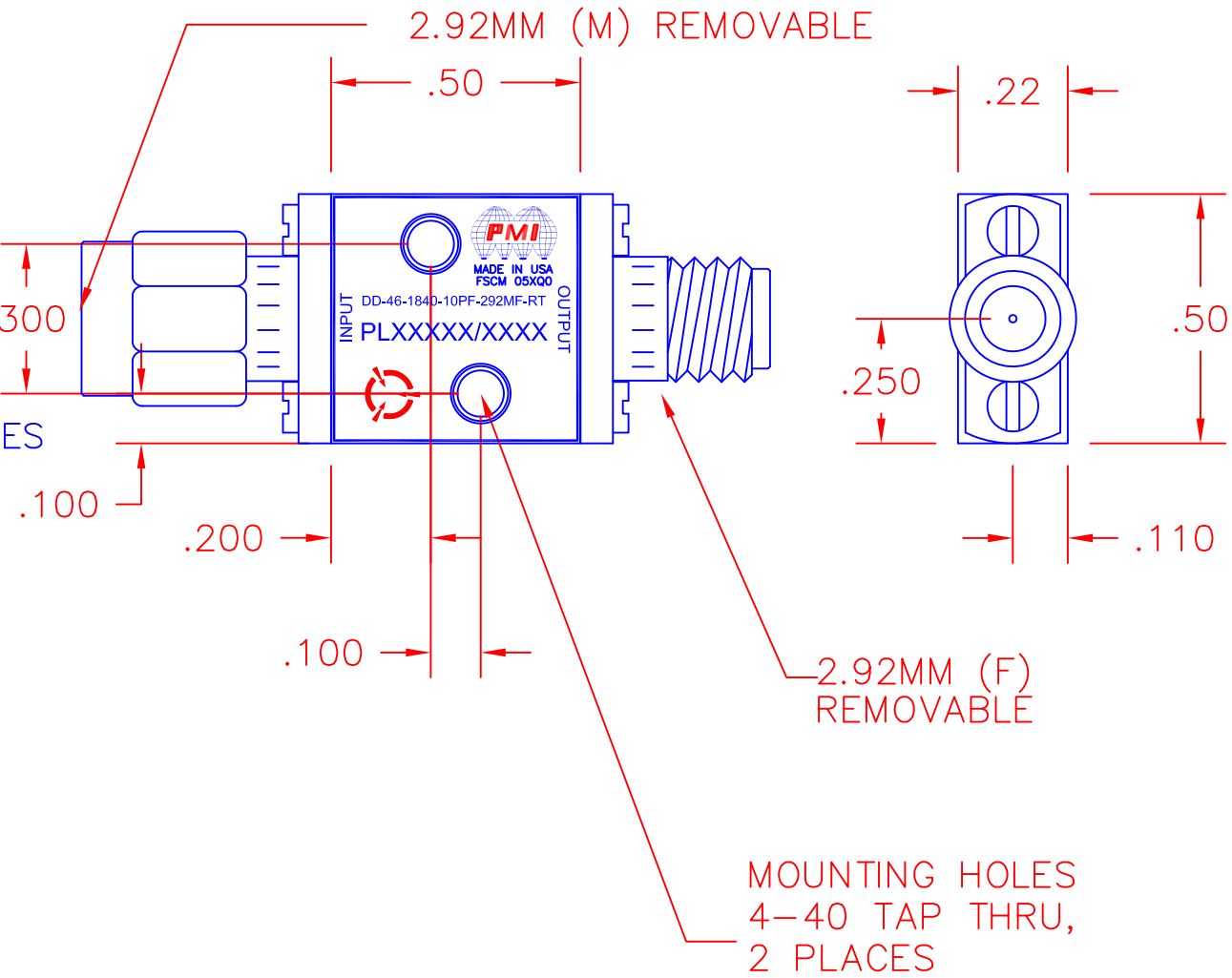


DESCRIPTION

THE MODEL DD-46-1840-10PF-292MF-RT IS A LOW NOISE DIODE DETECTOR OPERATING OVER THE 18.0 TO 40.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS EXCELLENT TEMPERATURE STABILITY WITH A RESPONSE TIME OF LESS THAN 5 ns TYPICAL.

SPECIFICATIONS

- FREQUENCY RANGE: 18.0 TO 40.0 GHz
- VOLTAGE SENSITIVITY: 300 mV/mW MINIMUM
- TANGENTIAL SENSITIVITY: -45 dBm (2 MHz VIDEO BANDWIDTH WITH 2 dB NOISE FIGURE VIDEO AMP.)
- TEMPERATURE STABILITY: ± 0.5 dB TYPICAL OVER TEMP EXTREMES
- MAXIMUM FLATNESS: ±1.75 dB
- RISE TIME: 5 ns TYPICAL
- VSWR: 4.0:1 TYPICAL
- OUTPUT CAPACITANCE: 10 pF TYPICAL
- OUTPUT RESISTANCE: 125 Ω TYPICAL
- INPUT POWER: 50 mW CW MAXIMUM
- CONNECTORS: 2.92 mm (M/F)
- SIZE: 0.50 L X 0.50 X 0.22
- 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.



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO +100°C (OPERATING)
-55°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

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

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001: CERTIFIED

APPROVALS		DATE	
DRAWN EMF		3/28/17	
CHECKED			
ISSUED			

TITLE PRODUCT FEATURE DD-46-1840-10PF-292MF-RT			
SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
SCALE 2/1		SHEET 1 OF 1	