

DESCRIPTION

PMI MODEL: DD-46-1840-10PF-N-292MF IS A LOW NOISE TUNNEL 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 NANOSECONDS 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 MALE IN/ SMA FEMALE OUT
- SIZE: ----- (L) 1.30" x $\varnothing 0.31$ "
(L) 33.02 mm x $\varnothing 7.87$ mm
- FINISH: ----- PAINTED BLUE

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. G (50g, 11 ms)
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. D (20 g, 10 - 2000 MHz)
- 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

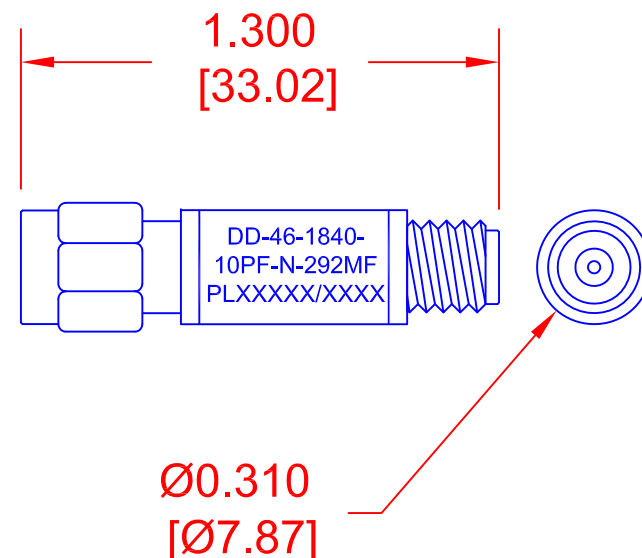
PMI CONFIDENTIAL AND PROPRIETARY

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

LABEL



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



		TITLE PRODUCT FEATURE DD-46-1840-10PF-N-292MF			
APPROVALS	DATE				
DRAWN <i>M. Berry</i>	<i>02/16/16</i>				
REDRAWN <i>JPU</i>	<i>06/26/17</i>				
ISSUED		SIZE A	FSCM NO. 05XQ0	DWG NO. 27032341	REV. A1
		SCALE N:S		SHEET 1 OF 1	