

DESCRIPTION

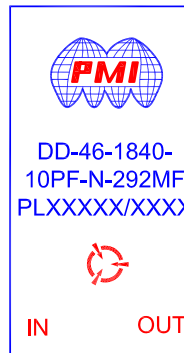
PMI MODEL: DD-46-1840-10PF-N-292MF IS A LOW NOISE TUNNEL DIODE DETECTOR OPERATING OVER THE 18.0 TO 40.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS EXCELLENT TEMPERATURE STABILITY WITH A RESPONSE TIME OF LESS THAN 5 NANOSECONDS TYPICAL.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	6/26/2017	
	A3	ECN # 23-0082	4/27/2023	
	A4	ECN # 24-0207	7/29/2024	

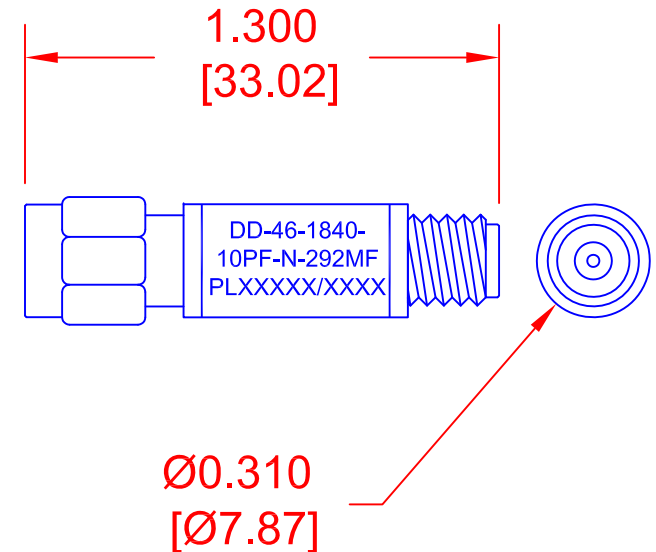
SPECIFICATIONS (WITH HIGH IMPEDANCE LOAD)

- FREQUENCY RANGE: ----- 18.0 TO 40.0 GHz
- POLARITY: ----- NEGATIVE
- 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: ----- ± 3 dB
- RISE TIME: ----- 5 ns TYPICAL
- VSWR: ----- 4.0:1 TYPICAL
- OUTPUT CAPACITANCE: ----- 10 pF TYPICAL
- OUTPUT RESISTANCE: ----- 50 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: ----- ALBALOY PLATING

LABEL



MECHANICAL OUTLINE



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

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		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>	SIZE A	FSCM NO. 05XQ0	DWG NO. 27032341	REV. A4
ISSUED		SCALE N:S	SHEET 1 OF 1		