

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: 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

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

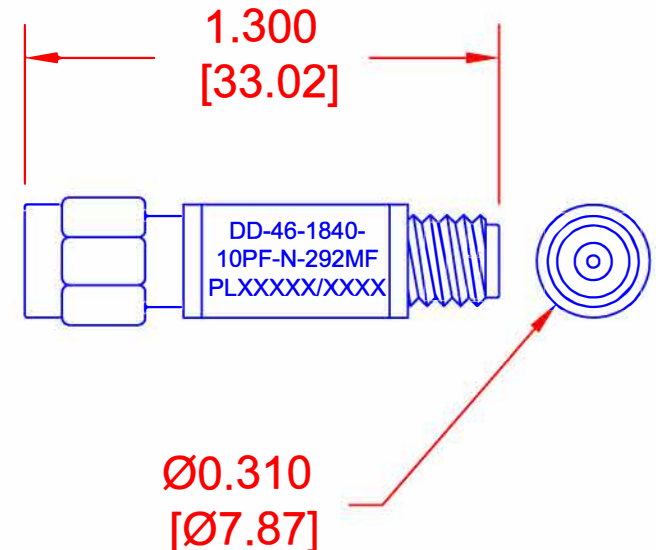
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ALL DIMENSIONS
ARE IN INCHES (mm)
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

LABEL



MECHANICAL OUTLINE



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	6/26/17	
	A1	ECN # 17-0236	10/10/17	
	A2	ECN # 19-0025	2/5/2019	
	A3	ECN # 23-0082	4/27/2023	

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APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		02/16/16	PRODUCT FEATURE DD-46-1840-10PF-N-292MF			
REDRAWN <i>JPU</i>		06/26/17				
ISSUED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27032341	REV. A3
SCALE N:S			SHEET 1 OF 1			