

DESCRIPTION

PMI MODEL: DD-812-9PF-P-292MF IS A LOW NOISE TUNNEL DIODE DETECTOR OPERATING OVER THE 8 TO 12 GHz FREQUENCY RANGE. THIS MODEL OFFERS EXCELLENT TEMPERATURE STABILITY WITH A RESPONSE TIME OF LESS THAN 5 NANOSECONDS TYPICAL.

SPECIFICATIONS

- FREQUENCY RANGE: 8 TO 12 GHz
- VSWR IN/OUT: 2.4:1 TYP
- FREQUENCY FLATNESS: ± 0.4 dB MAX
- RISE TIME: 5 ns TYP
- VOLTAGE SENSITIVITY: 700 mV/mW MIN
- TANGENTIAL SENSITIVITY: -50 dBm @ 2 MHz VIDEO BANDWIDTH (WITH 2 dB NOISE FIGURE AMPLIFIER)
- VIDEO CAPACITANCE: 9.0 pF NOMINAL
- OUTPUT VOLTAGE: POSITIVE (NEGATIVE IS AVAILABLE)
- MAX INPUT POWER: +20 dBm
- CONNECTORS: 2.92 (M) INPUT & (F) OUTPUT
- SIZE: (L) 1.30" x (DIA) 0.31"

ENVIRONMENTAL RATINGS

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

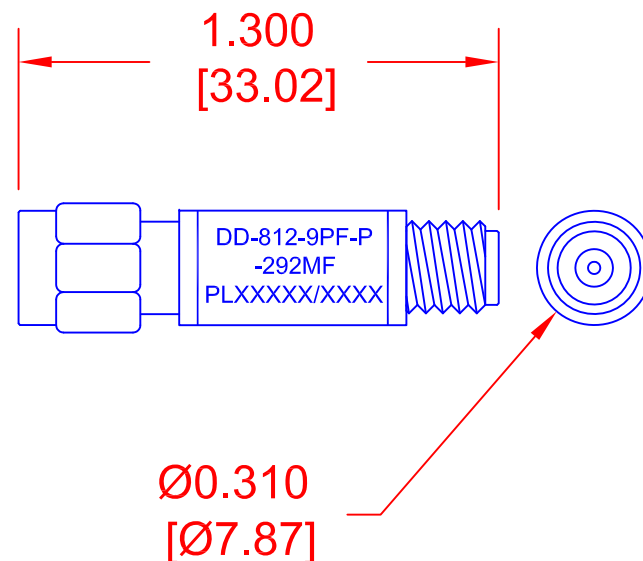
ALL DIMENSIONS
ARE IN INCHES (mm)
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/23/19	

LABEL



MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE			
DRAWN		1/23/19		PRODUCT FEATURE			
REDRAWN				DD-812-9PF-P-292MF			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0		-
				PRELIMINARY			
				SCALE	N:S	SHEET	1 OF 1