

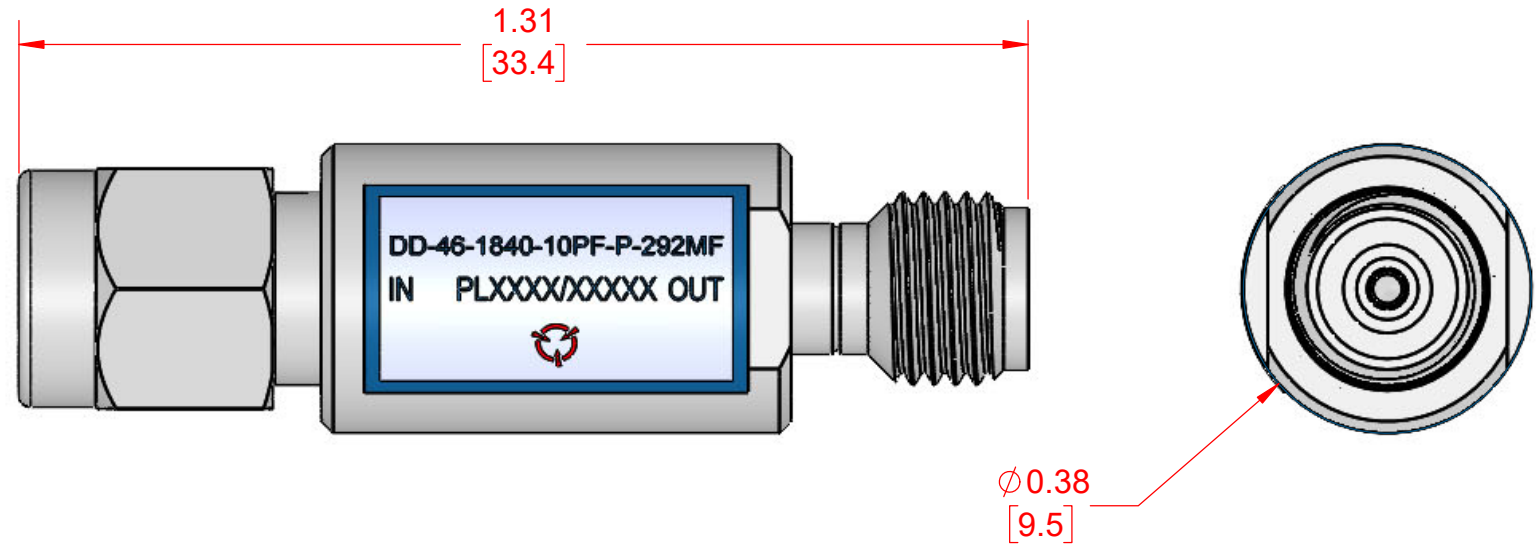
DESCRIPTION:

PMI MODEL: DD-46-1840-10PF-P-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 ns TYPICAL.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/24/2025	
	B1	ECN # 25-0288	10/21/25	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 18.0 TO 40.0 GHz
- VOLTAGE SENSITIVITY:..... 300 mV/mW MIN (-40 dBm TO -10 dBm)
- TANGENTIAL SENSITIVITY:..... -45 dBm (20 MHz VIDEO BANDWIDTH WITH 2 dB NOISE FIGURE VIDEO AMP.)
- TEMPERATURE STABILITY:..... ±0.5 dB TYP OVER TEMP EXTREMES
- FLATNESS:..... ± 3 dB MAX
- RISE TIME:..... 5 ns TYP
- VSWR:..... 4.0:1 TYP
- OUTPUT CAPACITANCE:..... 10 pF TYP
- OUTPUT RESISTANCE:..... 50 Ω TYP
- INPUT POWER:..... 50 mW CW MAX (+20 dBm)
- POLARITY:..... POSITIVE
- CONNECTORS:..... 2.92mm MALE/2.92mm FEMALE
- SIZE:..... (L) 1.31" x Ø0.38"
- FINISH:..... ALBALOY PLATING



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -45°C TO +95°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 (20g, 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 TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		APPROVALS		DATE	TITLE DD-46-1840-10PF-P-292MF OUTLINE		
		DRAWN J ESCANO		4/24/2025			
REISSUED		ISSUED		SIZE B	FSCM NO. 05XQ0	DWG NO. 27051640	REV. B1
SCALE 4:1				SHEET 1 OF 1			

Quantic PMI
PLANAR MONOLITHICS

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