

DESCRIPTION

PMI MODEL: PEC-42-1G40G-20-12-292FF-BT IS A 1 GHz TO 40 GHz LOW NOISE AMPLIFIER THAT HAS A TYPICAL GAIN OF 40 dB WHILE MAINTAINING A ± 2.5 dB FLATNESS. BIAS CAN BE APPLIED VIA THE OUTPUT RF CONNECTOR OR DC PIN AND COMES IN A SMALL 1.37" x 1.00" x 0.60" PACKAGE OUTFITTED WITH 2.92 mm FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 1 GHz TO 40.0 GHz
- GAIN: ----- 40 dB TYP / (34 dB MIN)
- GAIN FLATNESS: ----- ± 2.5 dB TYP
- NOISE FIGURE: ----- 5.5 dB TYP (UP TO 26.5 GHz)
- OP1dB: ----- +19 dBm TYP (1.0 TO 18.0 GHz)
+17 dBm TYP (18.0 TO 40.0 GHz)
- PSAT: ----- +23 dBm TYP (1.0 TO 18.0 GHz)
+20 dBm TYP (18.0 TO 40.0 GHz)
- INPUT POWER HANDLING: ----- +17 dBm CW MAX
- VSWR (IN/OUT): ----- 2.0:1 / 2.5:1 MAX
- DC SUPPLY (DC PIN OR RF OUT) : ----- +12 TO +15 VDC @ 550 mA NOM
- SIZE: ----- 1.37" (L) x 1.00" (W) x 0.60" (H)
- CONNECTORS: ----- 2.92 mm FEMALE
- FINISH: ----- PAINTED BLUE, MOUNTING SURFACE FREE OF PAINT (GOLD FINISH) FOR PROPER HEAT DISSIPATION
- SEALING: ----- HARD CONDUCTIVE EPOXY SEAL COMES STANDARD AND HERMETIC SEAL UPON REQUEST

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)
-65 °C TO +117 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

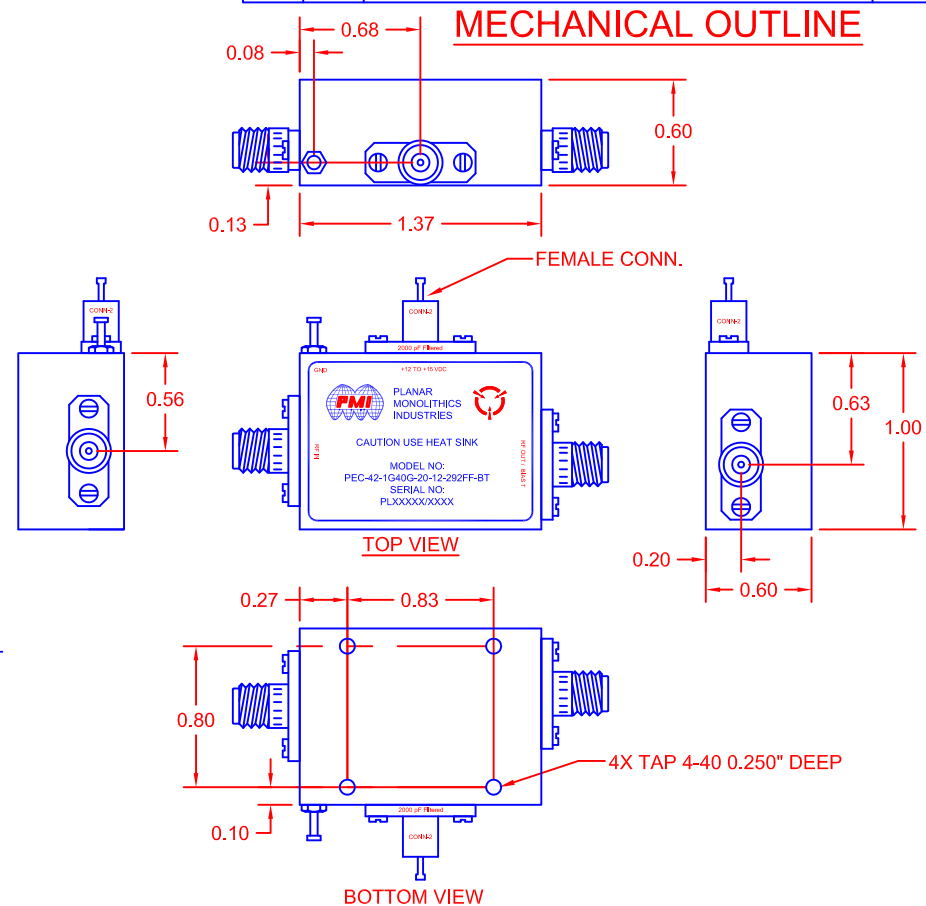
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/2/20	

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



APPROVALS		DATE		TITLE	
DRAWN		1/1/20		PRODUCT FEATURE	
CHECKED				PEC-42-1G40G-20-12-292FF-BT	
ISSUED					
SIZE	A	FSCM NO.	05XQ0	DWG NO.	27039880
SCALE	N:S			SHEET	1 OF 1
				REV.	A1