DESCRIPTION

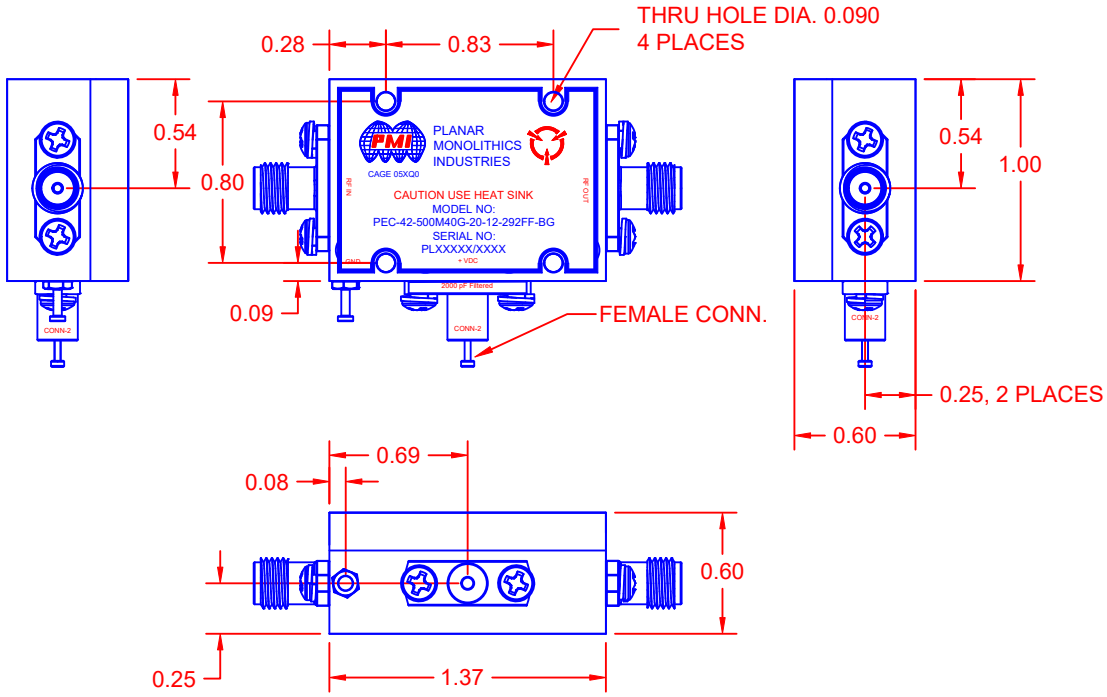
PMI MODEL: PEC-42-500M40G-20-12-292FF-BG IS A 500 MHz TO 40 GHz LOW NOISE AMPLIFIER THAT HAS A TYPICAL GAIN OF 42 dB WHILE MAINTAINING A ±2.5 dB FLATNESS. THIS SMALL 1.37" x 1.00" x 0.60" PACKAGE IS OUTFITTED WITH 2.92 mm FEMALE CONNECTORS.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/27/18	
	B1	ECN # 20-0017	1/22/20	

SPECIFICATIONS

- FREQUENCY RANGE: ---------- 500 MHz TO 40.0 GHz
- GAIN: ---------- 40 dB TYP
- MINIMUM GAIN: ---------- 36 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: ---------- +12 TO +15 VDC @ 450 mA NOM
- CONNECTORS: ---------- 2.92 mm FEMALE
- FINISH: ---------- GOLD PLATED

MECHANICAL OUTLINE



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

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

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
DRAWN SPH	4/16/18
REDRAWN SPU	11/27/18
ISSUED	

TITLE: PRODUCT FEATURE
PEC-42-500M40G-20-12-292FF-BG

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27036000	B1

SCALE N:S SHEET 1 OF 1