

DESCRIPTION:

MODEL NUMBER PEC-42-500M40G-20-12-292FF IS A 500MHZ 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 2.92MM MALE CONNECTORS.

SPECIFICATIONS:

FREQUENCY RANGE: _____ 500 MHz TO 40.0 GHz
 GAIN: _____ 42 dB TYP.
 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 INPUT/OUTPUT: _____ 2.0:1 / 2.5:1 MAX.
 DC VOLTAGE SUPPLY: _____ +12 TO +15 VDC @ 450 mA NOMINAL
 SIZE: _____ 1.37" (L) X 1.00" (W) X 0.60" (H)
 CONNECTORS: _____ 2.92MM (MALE)

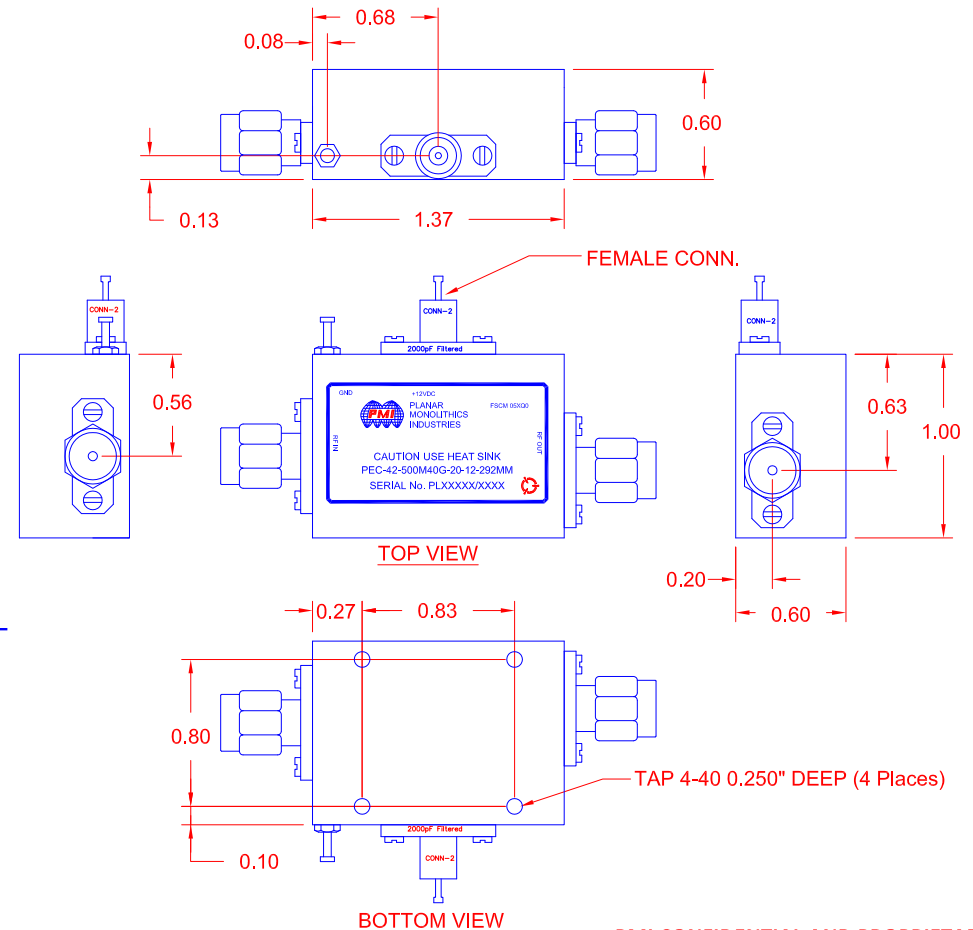
ENVIRONMENTAL RATINGS:

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

NOTE: THE ABOVE SPECIFICATIONS MAY CHANGE OVER TEMPERATURE.
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION.

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	05/15/13	
	A1	ECN # 13-0173	10/07/13	
	A2	ECN # 16-0047	03/11/16	



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
 FREDERICK, MARYLAND 21704 USA
 TEL: 301-662-5019 FAX: 301-662-1731
 WEBSITE: www.pmi-rf.com
 E-MAIL: sales@pmi-rf.com
 ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>AMG</i>		05/15/13	OUTLINE DRAWING PEC-42-500M40G-20-12-292MM		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	27019463
			SCALE	N:S	SHEET 1 OF 1
					REV. A2