

DESCRIPTION

PMI MODEL NO PE13-18-30G40G-4R0-8-12-292FF IS A LOW NOISE AMPLIFIER DESIGNED TO OPERATE OVER THE 30.0 TO 40.0GHZ FREQUENCY RANGE. THIS MODEL OFFERS A LOW NOISE FIGURE OF 4DB WITH A OP1DB OF +8DBM. THE DC POWER REQUIRED IS 100MA AT +12 TO +15VDC. THE AMPLIFIER IS SUPPLIED IN A PACKAGE MEASURING ONLY 0.64" x 0.70" x 0.29" AND HAS 2.92mm FEMALE CONNECTORS.

SPECIFICATIONS: (+25C)

- FREQUENCY RANGE: 30.0 to 40.0 GHZ
- GAIN: 18dB NOMINAL
- GAIN FLATNESS: ± 3.0 dB MAXIMUM
- NOISE FIGURE: 4.0dB TYPICAL (SEE NOTE 1)
- OP1dB: +8dBm TYPICAL
- PSAT: +11dBm TYPICAL
- VSWR (IN/OUT): 2.3:1 TYPICAL
- CONNECTORS: 2.92mm (F) REMOVABLE
- DC SUPPLY: +12 TO +15VDC @ 100mA NOMINAL
- SIZE (L) 0.64" X (W) 0.70" X (H) 0.29"
EXCLUDING CONNECTORS
- FINISH GOLD PLATED

FEATURES

- INTERNAL VOLTAGE REGULATION
- UNCONDITIONAL STABILITY

AVAILABLE OPTIONS

- VARIOUS PACKAGE TYPES
- VARIOUS CONNECTOR TYPES
- TEMPERATURE COMPENSATION
- GAIN AND PHASE MATCHING
- MIL-STD-883 SCREENING AVAILABLE

NOTE 1: PASS BY DESIGN.

ENVIRONMENTAL RATINGS

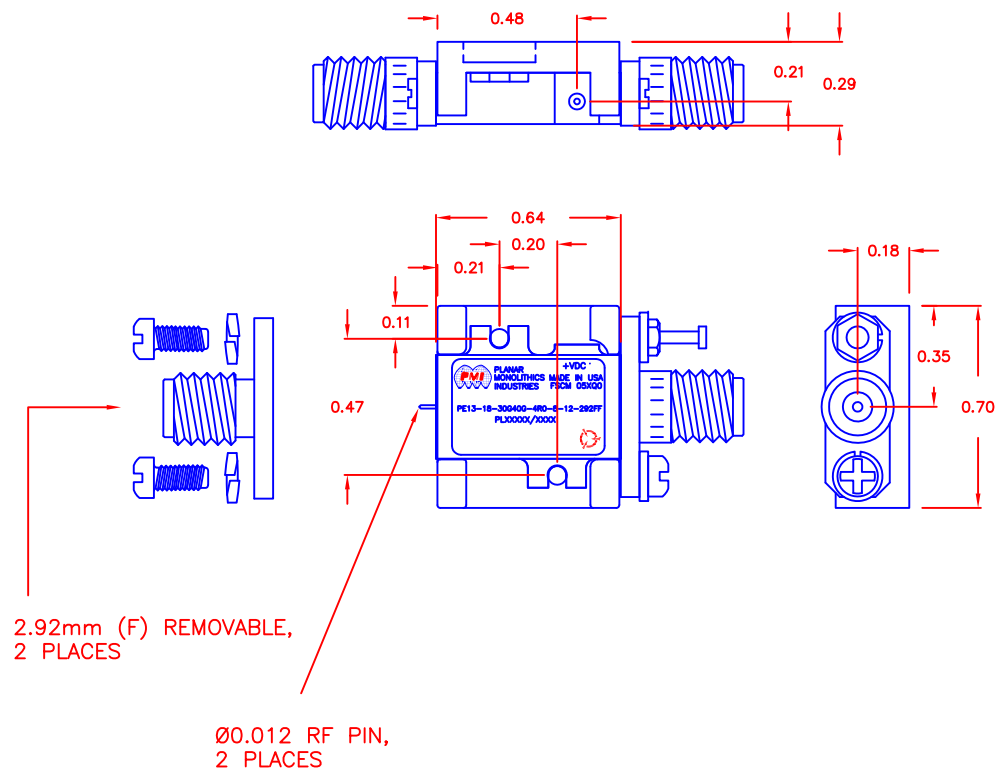
- TEMPERATURE: -55°C TO + 85°C (OPERATING)
-55°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING 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
	—	PRELIMINARY	10/22/14
		APPROVED	

MECHANICAL OUTLINE



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 K. MASON		10/22/14		PRODUCT FEATURE PE13-18-30G40G-4R0-8-12-292FF			
CHECKED				SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. —
ISSUED				SCALE N:S	SHEET 1 OF 1		