

DESCRIPTION

PMI MODEL NO. PE2-2023-11G18G-6R0-22-SFF-PGS IS A LOW NOISE AMPLIFIER THAT OFFERS A POSITIVE GAIN SLOPE OF +3DB FROM 11GHz TO 18GHz. THIS MODEL PROVIDES A MINIMUM OP1dB OF +22dBm WITH A NOISE FIGURE OF 4.5dB. THIS AMPLIFIER IS OFFERED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED WITH THE SUPPLIED SMA FEMALE CONNECTORS OR IN A DROP-IN SMT CONFIGURATION.

SPECIFICATIONS

- FREQUENCY RANGE: 11.0 to 18.0 GHz
- GAIN: 20dB TYPICAL AT 11GHz
23dB TYPICAL AT 18GHz
- NOISE FIGURE: 4.5dB TYPICAL, 6dB MAXIMUM
- OP1dB: +22dBm MINIMUM
- VSWR (IN/OUT): 2.0:1 TYPICAL, 2.5:1 MAXIMUM
- CONNECTORS: SMA (F) REMOVABLE
- DC SUPPLY: +12 TO +15VDC @ 475mA NOMINAL
- SIZE (L) 1.08" X (W) 0.71" X (H) 0.29"
EXCLUDING CONNECTORS
- FINISH GOLD PLATED
- NOTE: PROPER HEAT SINK REQUIRED TO AVOID DAMAGE

FEATURES

- INTERNAL VOLTAGE REGULATION
- UNCONDITIONAL STABILITY
- POSITIVE GAIN SLOPE

ENVIRONMENTAL RATINGS

- TEMPERATURE: -20°C TO + 70°C (OPERATING)
-65°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

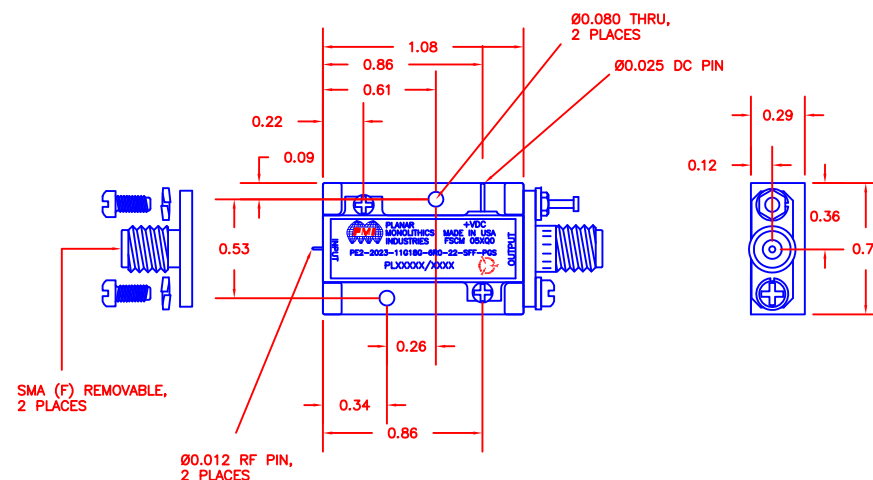
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

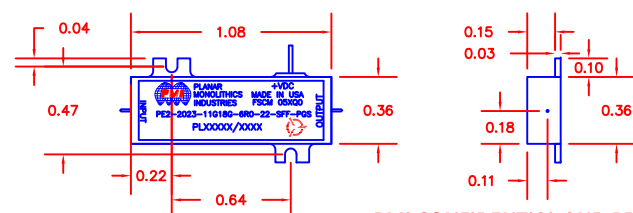
REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	—	PRELIMINARY	1/15/15

MECHANICAL OUTLINE

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



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		1/15/15		PRODUCT FEATURE			
CHECKED				PE2-2023-11G18G-6R0-22-SFF-PGS			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	PRELIMINARY	—
				SCALE	N:S	SHEET	1 OF 1