

## DESCRIPTION

LOW NOISE AMPLIFIER DESIGNED FOR MILITARY AND INDUSTRIAL APPLICATIONS. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS AN SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT. OTHER PACKAGES AND CONNECTOR TYPES ARE AVAILABLE. THIS MODEL PROVIDES THE FOLLOWING PERFORMANCE. DATA IS AVAILABLE UPON REQUEST.

## SPECIFICATIONS

- FREQUENCY RANGE: 2.0 to 12.0 GHZ
- GAIN: 30 dB TYPICAL
- GAIN FLATNESS:  $\pm 1.0$ dB MAXIMUM
- NOISE FIGURE: 4.0 dB TYPICAL
- OP1dB: 15 dBm MINIMUM
- VSWR (IN/OUT): 2.0:1 MAXIMUM
- CONNECTORS: SMA (F) REMOVABLE
- DC SUPPLY: +12 TO +15VDC @ 130 mA MAXIMUM
- SIZE (L) 1.08" X (W) 0.71" X (H) 0.29"  
\*EXCLUDING CONNECTORS\*
- FINISH GOLD PLATED

## FEATURES

- INTERNAL VOLTAGE REGULATION
- UNCONDITIONAL STABILITY
- STANDARD OPERATING TEMPERATURE  
-20 TO +70 DEG. C

## AVAILABLE OPTIONS

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

## ENVIRONMENTAL RATINGS

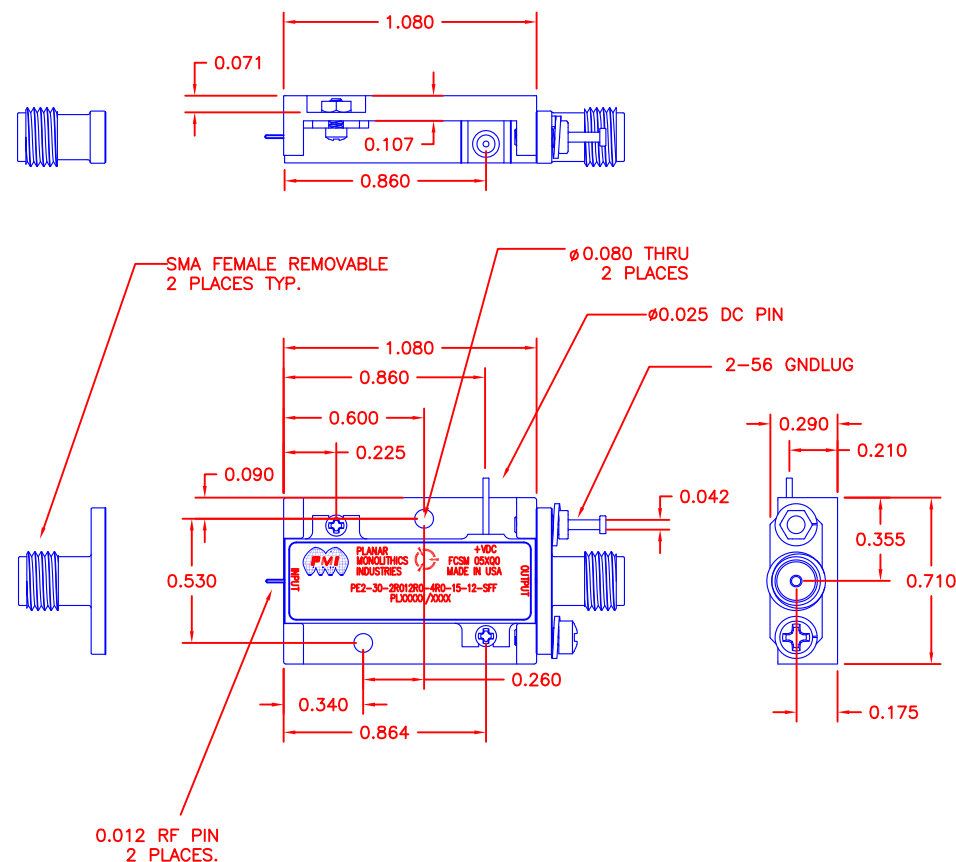
- TEMPERATURE: -40°C TO + 85°C (OPERATING)  
-40°C TO +100°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. 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  $\pm 0.020$   
X.XXX  $\pm 0.010$

| REVISIONS |      |             |         |
|-----------|------|-------------|---------|
| ZONE      | REV. | DESCRIPTION | DATE    |
|           | —    | PRELIMINARY | 5/16/16 |

## 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](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



| APPROVALS |  | DATE    |  | TITLE                        |  |        |  |
|-----------|--|---------|--|------------------------------|--|--------|--|
| DRAWN     |  | 5/16/16 |  | PRODUCT FEATURE              |  |        |  |
| CHECKED   |  |         |  | PE2-30-2R012R0-4R0-15-12-SFF |  |        |  |
| ISSUED    |  |         |  | PRELIMINARY                  |  |        |  |
| SCALE     |  | N:S     |  | SIZE                         |  | SHEET  |  |
|           |  |         |  | FSCM NO.                     |  | 1 OF 1 |  |
|           |  |         |  | DWG NO.                      |  |        |  |
|           |  |         |  | REV.                         |  |        |  |
|           |  |         |  | A                            |  |        |  |
|           |  |         |  | 05XQ0                        |  |        |  |