

## 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: \_\_\_\_\_ 0.1 to 18.0 GHz
- GAIN: \_\_\_\_\_ 37dB MINIMUM
- GAIN FLATNESS: \_\_\_\_\_  $\pm 2.0$ dB MAXIMUM
- NOISE FIGURE: \_\_\_\_\_ 3.5dB TYPICAL (2-18GHz)  
7.0dB TYPICAL (At 100MHz)
- OP1dB: \_\_\_\_\_ +20dBm MINIMUM
- VSWR (IN/OUT): \_\_\_\_\_ 2.3:1 / 2.5:1 MAXIMUM
- CONNECTORS: \_\_\_\_\_ SMA (F) REMOVABLE
- DC SUPPLY: \_\_\_\_\_ +14.5 TO +28VDC @ 525mA NOMINAL
- SIZE \_\_\_\_\_ (L) 1.08" X (W) 0.71" 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

## ENVIRONMENTAL RATINGS

- TEMPERATURE: \_\_\_\_\_ -40°C TO + 75°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

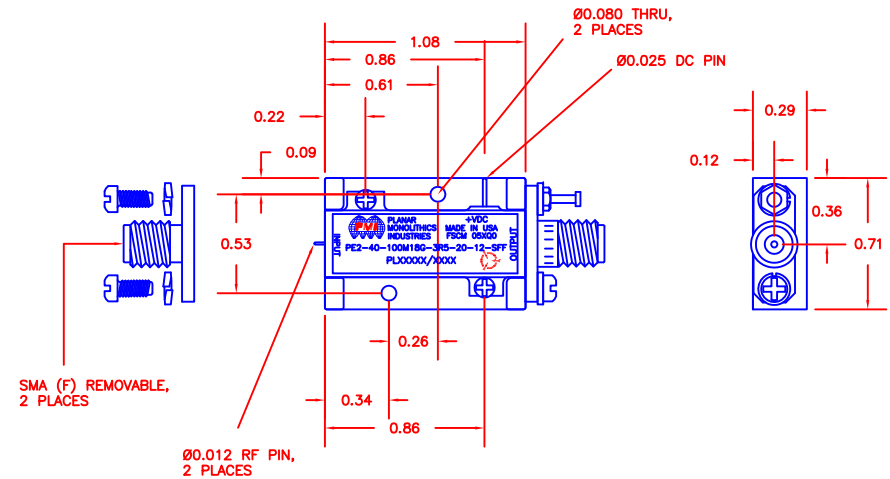
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX  $\pm 0.020$   
X.XXX  $\pm 0.010$

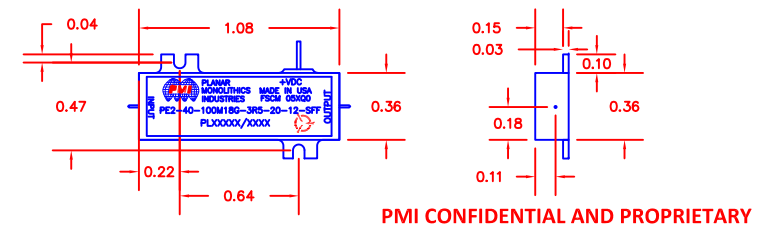
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/8/14	

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



APPROVALS		DATE	TITLE			
DRAWN <i>K.M.</i>		9/8/14	PRODUCT FEATURE			
CHECKED			PE2-40-100M18G-3R5-20-12-SFF			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	N:S		SHEET 1 OF 1