

## 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: ----- 8.0 TO 12.0 GHz
- GAIN: ----- 45 dB NOMINAL
- GAIN FLATNESS: ----- ±1.5 MAXIMUM
- NOISE FIGURE: ----- 2.0 dB TYPICAL  
2.25 dB MAXIMUM
- OP1dB: ----- +20 dBm MINIMUM
- VSWR (IN/OUT): ----- 2.0:1 MAXIMUM
- CONNECTORS: ----- SMA FEMALE REMOVABLE
- DC SUPPLY: ----- +12 TO 15 VDC @ 375 mA NOMINAL
- SIZE: ----- [L] 1.08" x [W] 0.71" x [H] 0.29"  
\*EXCLUDING CONNECTORS\*
- FINISH: ----- GOLD PLATED

## SPECIFICATIONS

- 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: ----- -54 °C TO +85 °C (OPERATING)  
-65 °C TO +125 °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

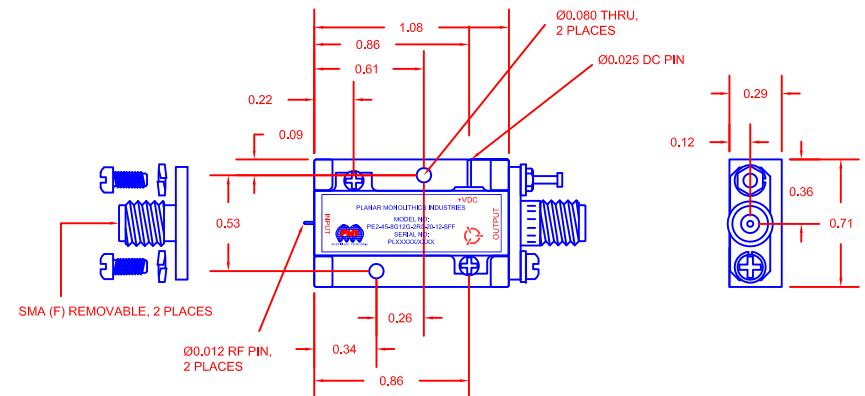
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS  
ARE IN INCHES (mm)  
TOLERANCES:  
X,XX ±0.020  
X,XXX ±0.010

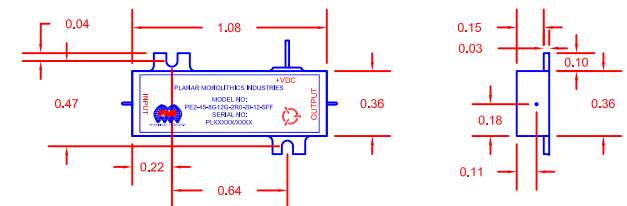
**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	10/21/15	

## MECHANICAL OUTLINE PE2 HOUSING WITH CARRIER



## PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>M. Berry</i>		10/21/15	PRODUCT FEATURE PE2-45-8G12G-2R0-20-12-SFF		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27026241
ISSUED			SCALE N:S		REV. 1
				SHEET	1 OF 1