

## Description:

Model Number: PE2-30-1R06R0-1R5-22-12-SFF is a 1 to 6 GHz low noise amplifier. This amplifier is supplied in our standard PE2 housing that can be used as a SMA connectorized or a surface mount component.

This model provides the following performance. Data is available upon request.

## Specifications:

|                    |                            |
|--------------------|----------------------------|
| Frequency Range:   | 1.0 to 6.0 GHz             |
| Gain:              | 30dB Typ.                  |
| Gain Flatness:     | +/- 1.5dB Max.             |
| Noise Figure:      | 1.8dB Typ.<br>2.2dB Max.   |
| OP1dB:             | +22dBm Typ.<br>+21dBm Min. |
| VSWR Input/Output: | 2.0:1 Max.                 |
| DC Voltage Supply: | +12 to +15VDC Max          |
| DC Current Draw:   | 320mA Typ.                 |
| Connectors In/Out  | SMA Female                 |

## Features:

Internal Voltage Regulation  
Unconditional Stability  
Standard Operating Temperature -55°C to +85°C

## Available Options:

Various Package types  
Various Connector types  
Temperature Compensation  
Gain and Phase Matching  
MIL-STD-883 Screening Available

## Environmental Ratings:

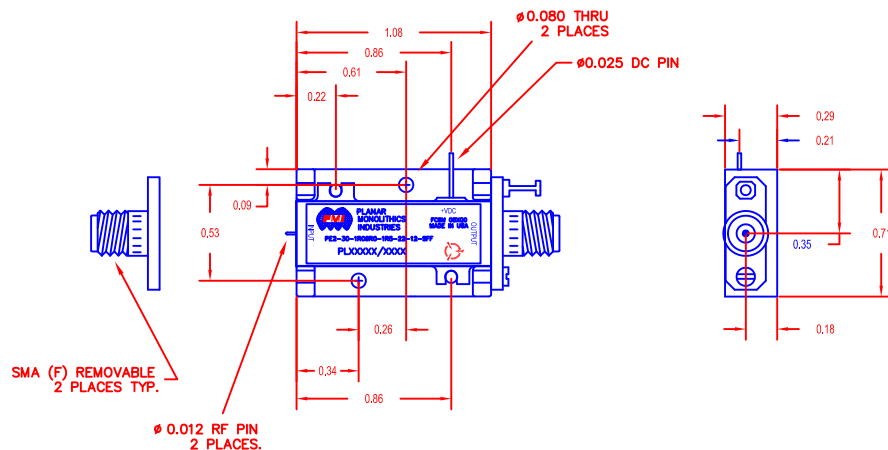
|                    |                                                         |
|--------------------|---------------------------------------------------------|
| Temperature:       | -55°C to +85°C (Operating)<br>-65°C to +125°C (Storage) |
| Humidity:          | MIL-STD-202F, METHOD 103B COND B.                       |
| 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: The above specifications are subject to change or revision.

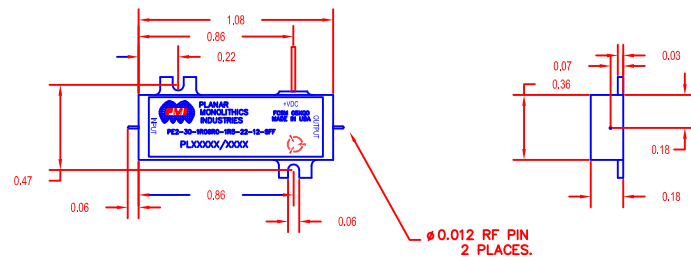
ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

| REVISIONS |      |                  |          |          |
|-----------|------|------------------|----------|----------|
| ZONE      | REV. | DESCRIPTION      | DATE     | APPROVED |
|           | 1    | ORIGINAL RELEASE | 8/20/13  |          |
|           | A1   | ECN # 14-0025    | 02/11/14 |          |

### PE2 HOUSING WITH CARRIER



### PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

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| APPROVALS |  | DATE |  | TITLE                       |          |              |
|-----------|--|------|--|-----------------------------|----------|--------------|
| DRAWN     |  | JGS  |  | PRODUCT FEATURE             |          |              |
| CHECKED   |  |      |  | PE2-30-1R06R0-1R5-22-12-SFF |          |              |
| ISSUED    |  |      |  | SIZE                        | FSCM NO. | DWG NO.      |
|           |  |      |  | A                           | 05XQ0    | 27020761     |
|           |  |      |  | SCALE                       | N: S     | SHEET 1 OF 1 |