

## Description:

PMI Model Number: PE2-27-5D4G5D9G-1R3-20-12-SFF is a 5.4 to 5.9 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.

## Specifications:

|                    |                                       |
|--------------------|---------------------------------------|
| Frequency Range:   | 5.4 to 5.9 GHz                        |
| Gain:              | 27dB Minimum                          |
| Gain Flatness:     | +/-1.5dB Maximum                      |
| Noise Figure:      | 1.3dB Typical, 1.5dB Maximum (Note 1) |
| OP1dB:             | +20dBm Minimum                        |
| VSWR Input/Output: | 2.0:1 Maximum                         |
| Input Power:       | +23dBm CW Max.                        |
| DC Voltage Supply: | +12 to +15VDC                         |
| DC Current Draw:   | 340mA Nominal                         |
| Connectors In/Out  | SMA Female                            |

Note 1: +25 Deg. C

## Features:

Internal Voltage Regulation  
Reverse Voltage Protection  
Unconditional Stability

## Available Options:

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

## Environmental Ratings:

|                    |                                   |
|--------------------|-----------------------------------|
| Temperature:       | -55 to +85 Deg. C (Operating)     |
|                    | -65 to +125 Deg. 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  |

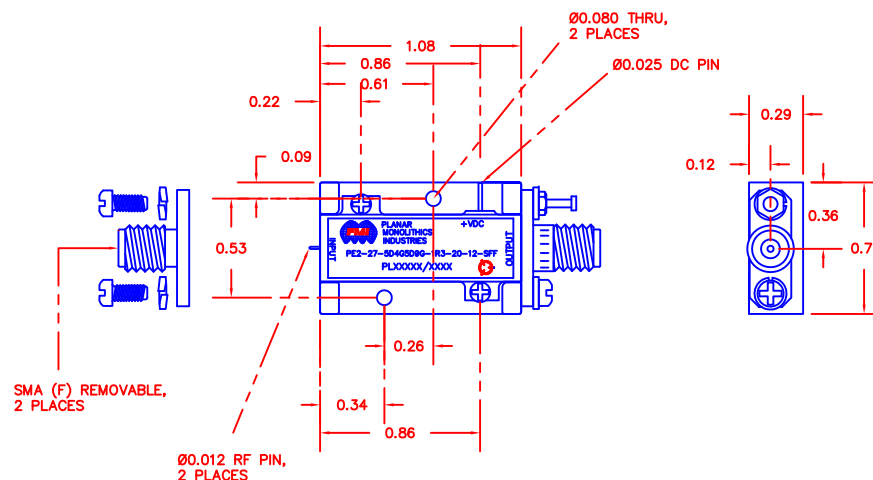
Note: The above specifications are subject to change or revision.

Note: Specifications are valid at +25C.

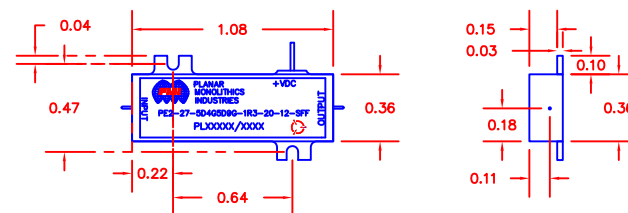
ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.02  
X.XXX ±0.010

| REVISIONS |      |             |         |
|-----------|------|-------------|---------|
| ZONE      | REV. | DESCRIPTION | DATE    |
|           | —    | PRELIMINARY | 2/16/15 |

### 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 9001:2008 CERTIFIED



| APPROVALS |  | DATE     |  | TITLE   |  |                               |  |
|-----------|--|----------|--|---------|--|-------------------------------|--|
| DRAWN     |  | K. MASON |  | 2/16/15 |  | PRODUCT FEATURE               |  |
| CHECKED   |  |          |  |         |  | PE2-27-5D4G5D9G-1R3-20-12-SFF |  |
| ISSUED    |  |          |  |         |  | PRELIMINARY                   |  |
| SIZE      |  | FSCM NO. |  | DWG NO. |  | REV.                          |  |
| A         |  | 05XQ0    |  |         |  | —                             |  |
| SCALE     |  | N: S     |  |         |  | SHEET                         |  |
|           |  |          |  |         |  | 1 OF 1                        |  |