

| REVISIONS |      |                  |        |          |
|-----------|------|------------------|--------|----------|
| ZONE      | REV. | DESCRIPTION      | DATE   | APPROVED |
|           | A    | ORIGINAL RELEASE | 3/2/10 |          |

**Description:**

Part Number 27312460 (Model Number PE2-30-18G26G-6R5-14-12-SFF) is an 18 - 26 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:   | 18 to 26 GHz                               |
| Gain:              | 30 dB Typ.                                 |
| Gain Flatness:     | +/- 1.5 dB Max.                            |
| Noise Figure:      | 5.0 dB Typ. @ 18 GHz, 6.5 dB Typ. @ 26 GHz |
| OP1dB:             | +14 dBm Min.                               |
| VSWR Input/Output: | 2.3:1 Max.                                 |
| DC Voltage Supply: | +12 to +15VDC                              |
| DC Current Draw:   | 400 mA Max.                                |

**Features:**

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

**Available Options:**

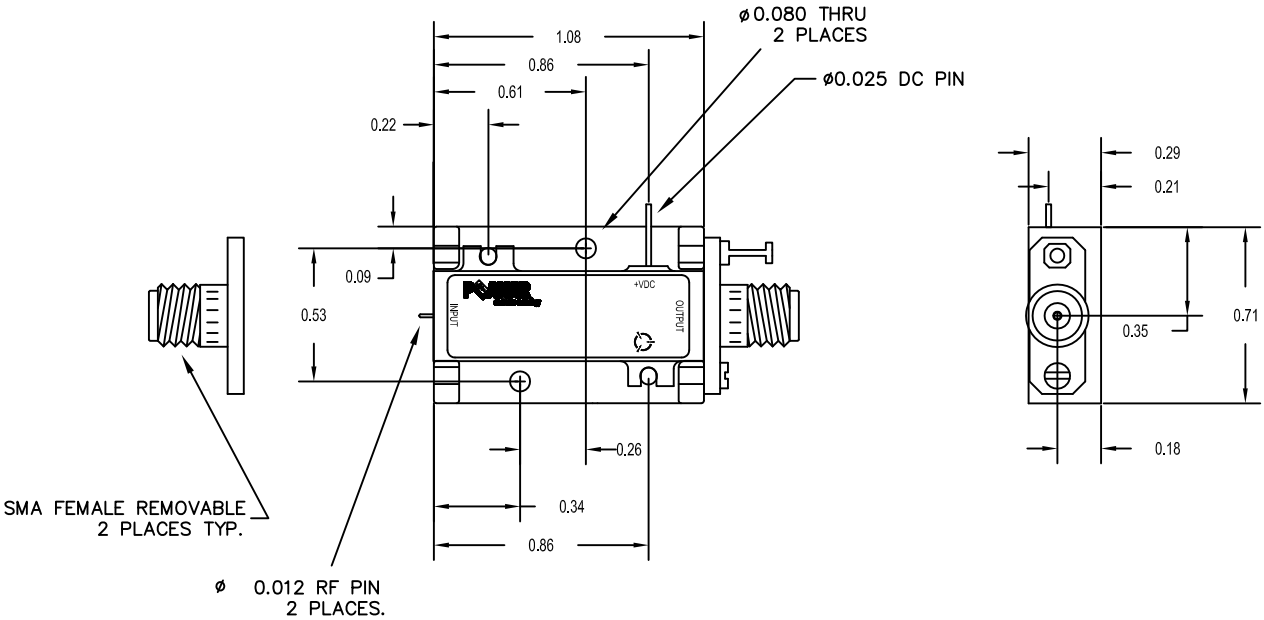
- Various Package types
- Various Connector types
- Temperature Compensation
- Hermetic Sealing
- Gain and Phase Matching
- MIL-STD-883 Screening Available

**Environmental Ratings:**

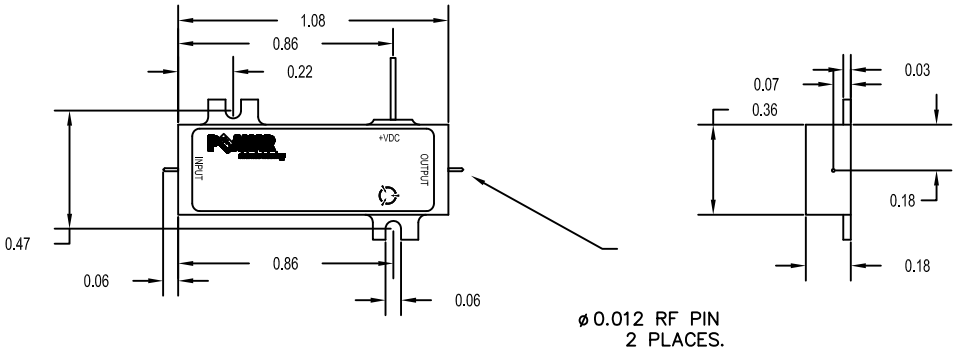
|                    |                                   |
|--------------------|-----------------------------------|
| Temperature:       | -55 to +85 Deg. C (Operating)     |
|                    | -65 to +125 Deg. C (Storage)      |
| Humidity:          | MIL-STD-202F, METHOD 103B COND B. |
| Shock:             | 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.

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
FRACTIONS DECIMALS ANGLES  
± .XX ± 0.010 ±  
.XXX ± 0.005

| PART NO.                      | APPROVALS |         | DATE   | TITLE                                          | 7311-F GROVE ROAD<br>FREDERICK, MARYLAND |           |          |        |
|-------------------------------|-----------|---------|--------|------------------------------------------------|------------------------------------------|-----------|----------|--------|
|                               | APPROVED  | CHECKED |        |                                                | SIZE                                     | CAGE CODE | DWG NO.  | REV.   |
| MATERIAL:<br>6061-T6 Aluminum | DPD       |         | 3/2/10 | OUTLINE DRAWING<br>PE2-30-18G26G-6R5-14-12-SFF | B                                        | 05XQ0     | 27012461 | A      |
| FINISH:<br>GOLD PLATED        |           |         |        |                                                | SCALE                                    | N/A       | SHEET    | 1 OF 1 |
| DO NOT SCALE DRAWING          |           |         |        |                                                |                                          |           |          |        |