

| REVISIONS |     |                  |        | DATE | APPROVED |
|-----------|-----|------------------|--------|------|----------|
| 2         | REV | DESCRIPTION      | DATE   |      |          |
| -         |     | ORIGINAL RELEASE | 2/7/03 |      |          |

**Description:**

Low Noise Amplifier designed for Military and Industrial applications. This amplifier is supplied in our standard PE2 housing that can be used as a 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: 2.0 to 4.0 GHz  
Gain: 35dB Typ.  
Gain Flatness: +/-1.0dB Max.  
Noise Figure: 1.4dB Typ.  
OP1dB: 13dBm Min.  
VSWR Input/Output: 2.0:1 Max.  
DC Voltage Supply: +12 to +15V/DC  
DC Current Draw: 160mA Max.

**Features:**

- Internal Voltage Regulation  
Unconditional Stability  
Standard Operating Temperature -20 to +70 Deg. C

**Available Options:**

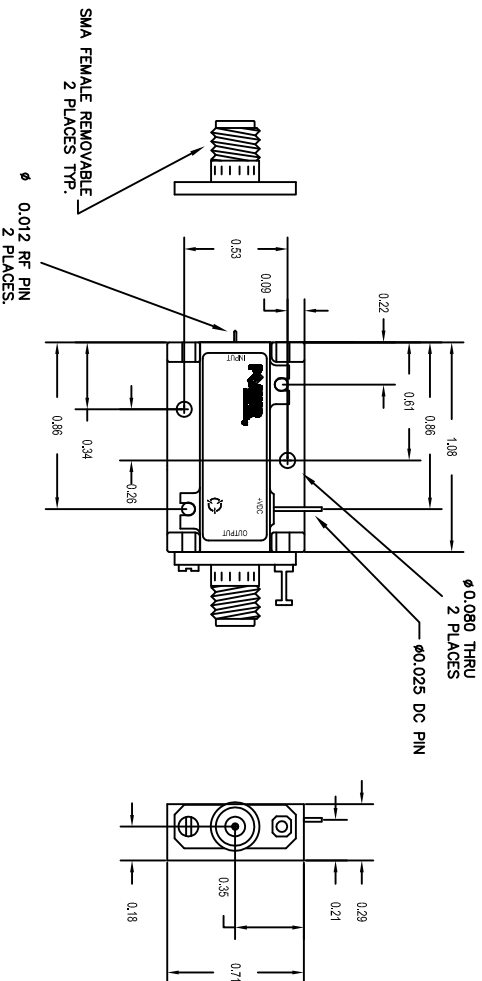
- Various Package types  
Various Connector types  
Temperature Compensation  
Hermetic Sealing  
Gain and Phase Matching  
MIL-STD-883 Screening Available

**Environmental Ratings:**

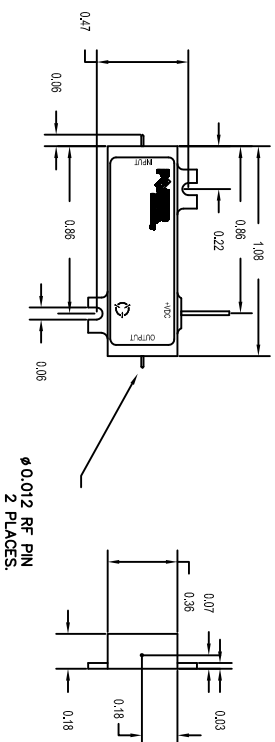
- Temperature: -20 to +70 Deg. C (Operating) ; -55 to +85 Deg C (Available)  
Humidity: MIL-STD-202F, METHOD 103B COND B.  
Shock: MIL-STD-202F, METHOD 213B COND B.  
Altitude: MIL-STD-202F, METHOD 105C COND B.  
Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

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       |  | REV     |  | DATE                   |  | REV                  |  |
|-----------------|--|-----------------------------|--|----------|--|-------------|--|---------|--|------------------------|--|----------------------|--|
| MATERIAL:       |  | 6061-T6 Aluminum            |  | K. Mason |  | 2/27/03     |  | FINISH: |  | Gold Plate over Nickel |  | DO NOT SCALE DRAWING |  |
| PRODUCT FEATURE |  | PE2-35-2804R0-1R4-15-12-SFF |  | B. 1LK53 |  | WEB - MODEL |  | A       |  | 1 OF 1                 |  |                      |  |