

| 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: 0.8 to 1.0 GHz  
Gain: 45dB Typ.  
Gain Flatness: +/-0.75dB Max.  
Noise Figure: 4.5dB Typ.  
OP1dB: 13dBm Min.  
VSWR Input/Output: 2.0:1 Max.  
DC Voltage Supply: +12 to +15VDC  
DC Current Draw: 200mA Max.

**Features:**

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

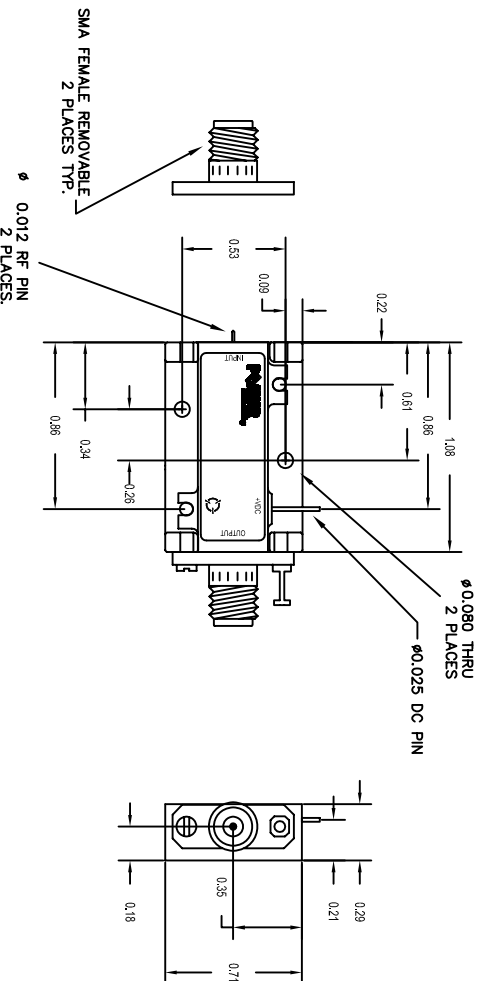
**Available Options:**

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

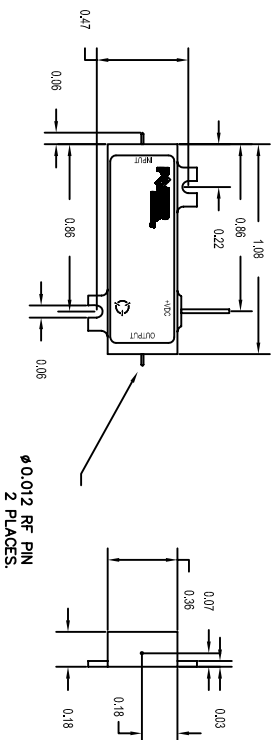
**Environmental Ratings:**

- 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  
± ± ±  
.XXX ± 0.005

| PART NO.               |  | DATE        |  | REVISION                   |  |
|------------------------|--|-------------|--|----------------------------|--|
| MATERIAL:              |  | K. MASON    |  | 2/27/03                    |  |
| 6061-T6 Aluminum       |  | FINISH:     |  | PE2-45-088R0-4R5-15-12-SFF |  |
| Gold Plate over Nickel |  | B. 1LK53    |  | WEB - MODEL A              |  |
| DO NOT SCALE DRAWING   |  | PAGE 1 OF 1 |  |                            |  |