

| 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: 16.0 to 17.0 GHz  
Gain: 15dB Typ.  
Gain Flatness: +/-0.5dB Max.  
Noise Figure: 3.75dB Typ.  
OP1dB: 19dBm Min.  
VSWR Input/Output: 2.0:1 Max.  
DC Voltage Supply: +12 to +15V/DC  
DC Current Draw: 225mA Max.

**Features:**

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

**Available Options:**

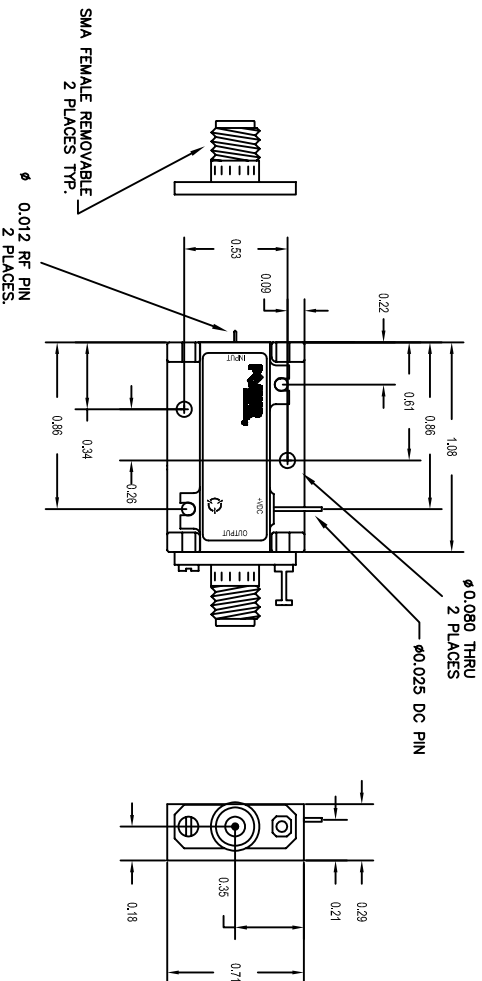
- Various Package types  
Various Connector types  
Temperature Compensation  
Hermetic Sealing  
Gain and Phase Matching  
MIL-STD-883 Screening Available

**Environmental Ratings:**

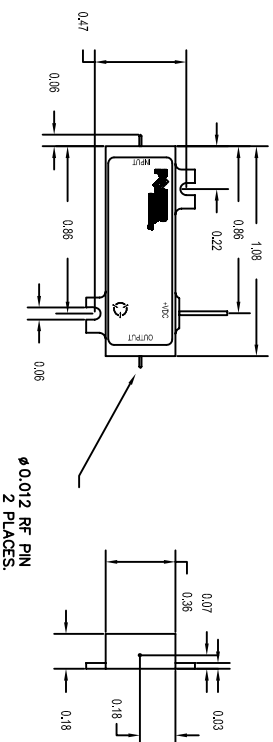
- Temperature: -20 to +70 Deg. C (Operating) ; -55 to +85 Deg C (Available)  
-55 to +125 Deg. C (Storage)  
Humidity: MIL-STD-202F, METHOD 103B COND B.  
Shock: MIL-STD-202F, METHOD 213B COND B.  
Altitude: MIL-STD-202F, METHOD 105C COND B.  
Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

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.               |  | DATE                         |  | TITLE               |  | REV         |  |
|------------------------|--|------------------------------|--|---------------------|--|-------------|--|
| MATERIAL:              |  | APPROVALS                    |  | DATE                |  | REV         |  |
| 6061-T6 Aluminum       |  | K. Mason                     |  | 2/21/03             |  | 1           |  |
| FINISH:                |  | PRODUCT FEATURE              |  | DATE                |  | REV         |  |
| Gold Plate over Nickel |  | PE2-15-16G17G-3R75-20-12-SFF |  | B. 11K53            |  | WEB - MODEL |  |
| DO NOT SCALE DRAWING   |  | 5715 Industry Lane, Unit 11  |  | FREDERICK, MARYLAND |  | 1 OF 1      |  |