

| REVISIONS |     |                  |  | DATE   | APPROVED |
|-----------|-----|------------------|--|--------|----------|
| 2         | REV | DESCRIPTION      |  | 8/7/08 |          |
| -         |     | ORIGINAL RELEASE |  |        |          |

**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:  
Gain:  
Gain Flatness:  
Noise Figure:  
OP1dB:  
VSWR Input/Output:  
DC Voltage Supply:  
DC Current Draw:
- 1.0 to 2.0 GHz  
15dB Typ.  
+/-0.5dB Max.  
5.0dB Typ.  
19dBm Min.  
2.0:1 Max.  
+12 to +15V/DC  
225mA Max.

**Features:**

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

**Available Options:**

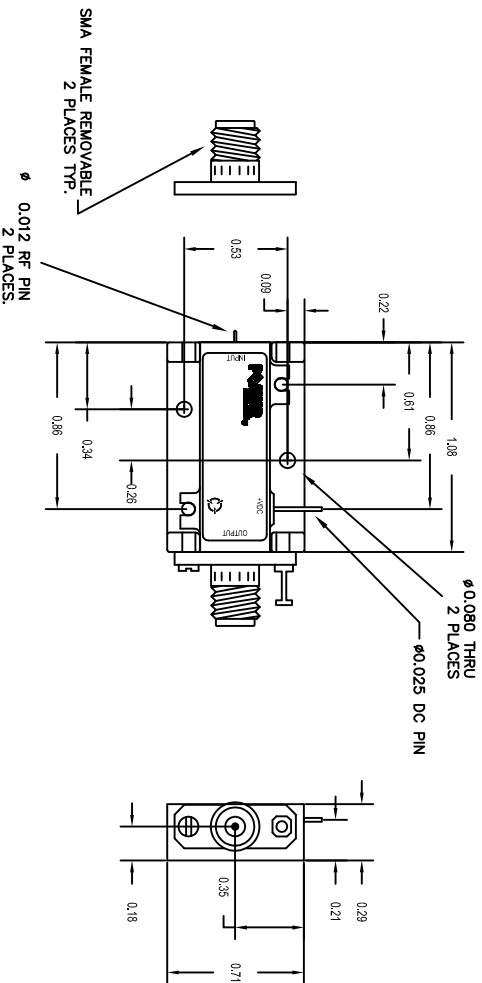
- Various Package types  
Various Connector types  
Temperature Compensation  
Hermetic Sealing  
Gain and Phase Matching  
MIL-STD-883 Screening Available

**Environmental Ratings:**

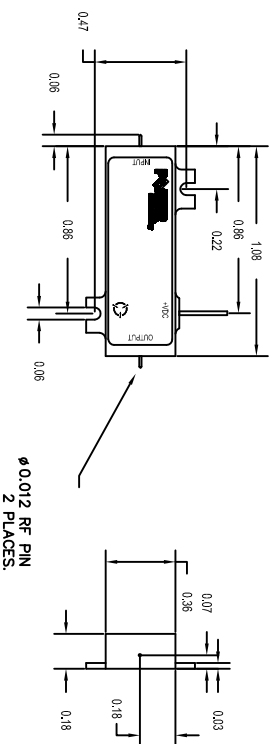
- Temperature:  
Humidity:  
Shock:  
Altitude:  
Temperature Cycle:
- 20 to +70 Deg. C (Operating) ; -55 to +85 Deg C (Available)  
-55 to +125 Deg. C (Storage)  
MIL-STD-202F, METHOD 103B COND B.  
MIL-STD-202F, METHOD 213B COND B.  
MIL-STD-202F, METHOD 105C COND B.  
MIL-STD-202F, METHOD 107D COND 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                        |  | TITLE               |  | REV         |  |
|--------------------------|--|-----------------------------|--|---------------------|--|-------------|--|
| MATERIAL:                |  | APPROVALS                   |  | DATE                |  | REV         |  |
| 6061-T6 Aluminum         |  | K. Mason                    |  | 8/21/08             |  | 1           |  |
| FINISH:                  |  | PRODUCT FEATURE             |  | DATE                |  | REV         |  |
| Gold Plating over Nickel |  | PE2-15-1R02R0-5R0-21-12-SF  |  | B. 11K53            |  | WEB - MODEL |  |
| DO NOT SCALE DRAWING     |  | 5715 Industry Lane, Unit 11 |  | FREDERICK, MARYLAND |  | 1 OF 1      |  |