

| REVISIONS |     |                  |  | DATE   | APPROVED |
|-----------|-----|------------------|--|--------|----------|
| 2         | REV | DESCRIPTION      |  | 2/7/09 |          |
| -         |     | 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:  
1.0 to 4.0 GHz  
Gain:  
15dB Typ.  
Gain Flatness:  
+/-1.0dB Max.  
Noise Figure:  
4.5dB Typ.  
OP1dB:  
20dBm Min.  
VSWR Input/Output:  
2.0:1 Max.  
DC Voltage Supply:  
+12 to +15VDC  
DC Current Draw:  
225mA Max.

### Features:

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

### Available Options:

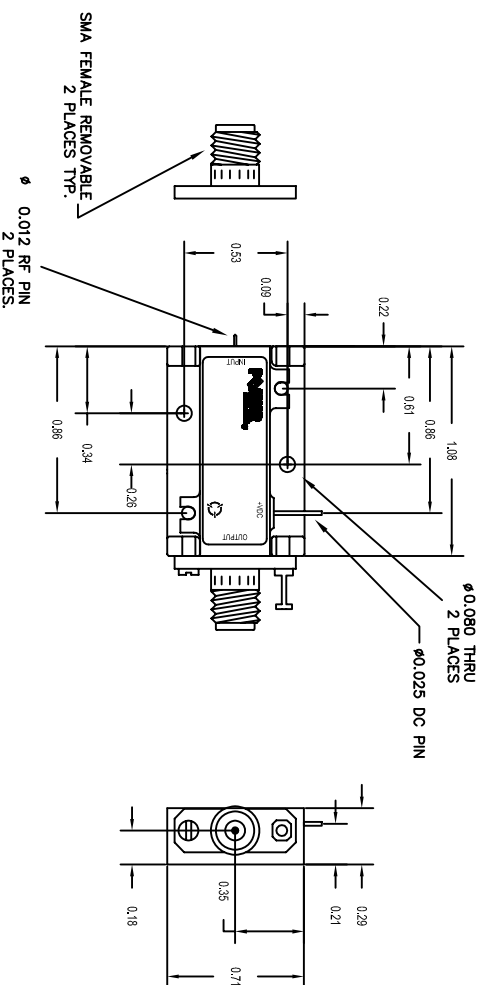
Various Package types  
Various Connector types  
Temperature Compensation  
Hermetic Sealing  
Gain and Phase Matching  
MIL-STD-883 Screening Available

### Environmental Ratings:

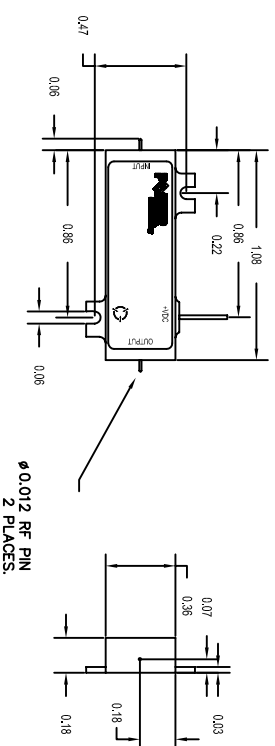
Temperature:  
-20 to +70 Deg. C (Operating) ; -55 to +85 Deg C (Available)  
-55 to +125 Deg. C (Storage)  
Humidity:  
MIL-STD-202F, METHOD 103B COND B.  
Shock:  
MIL-STD-202F, METHOD 213B COND B.  
Altitude:  
MIL-STD-202F, METHOD 105C COND B.  
Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

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  
± ± ±  
.XXX ± 0.005

| PART NO.               |  | DATE            |  | TITLE                     |  |
|------------------------|--|-----------------|--|---------------------------|--|
| MATERIAL:              |  | APPROVALS       |  | DATE                      |  |
| 6061-T6 Aluminum       |  | K. MASON        |  | 2/27/09                   |  |
| FINISH:                |  | TOLERANCES ARE: |  | FRACTIONS DECIMALS ANGLES |  |
| Gold Plate over Nickel |  | ±               |  | ±                         |  |
| DO NOT SCALE DRAWING   |  | ±               |  | ±                         |  |
| B. 1LK53               |  | WEB - MODEL     |  | A                         |  |
| B. 1LK53               |  | WEB - MODEL     |  | A                         |  |
| B. 1LK53               |  | WEB - MODEL     |  | A                         |  |