

| 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: 8.0 to 9.0 GHz  
Gain: 45dB Typ.  
Gain Flatness: +/-0.75dB Max.  
Noise Figure: 1.5dB Typ.  
OP1dB: 15dBm Min.  
VSWR Input/Output: 2.0:1 Max.  
DC Voltage Supply: +12 to +15V/DC  
DC Current Draw: 250mA 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.

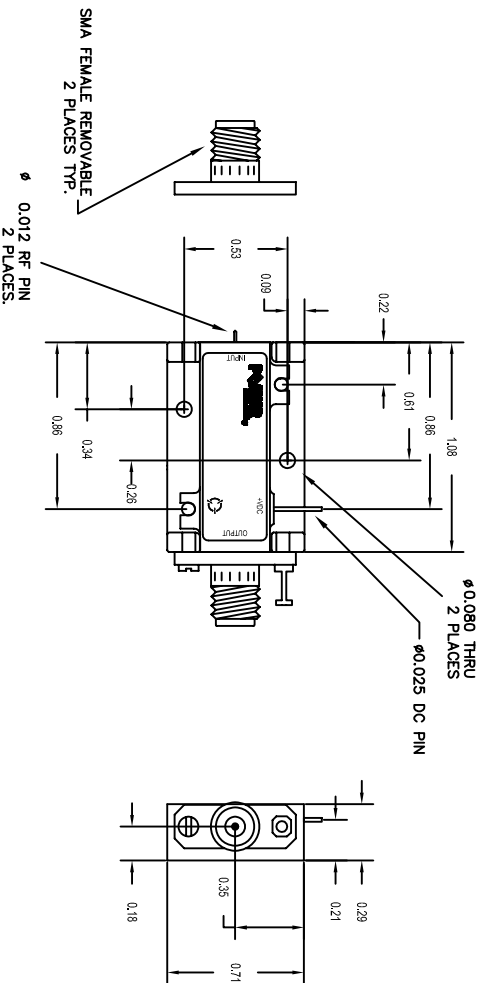
Shock: MIL-STD-202F, METHOD 213B COND B.

Altitude: MIL-STD-202F, METHOD 105C COND B.

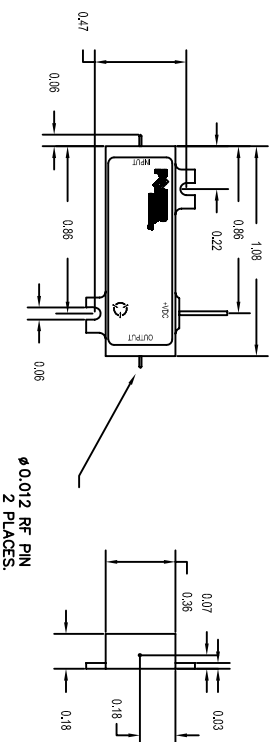
Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

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                        |  | TITLE    |  |
|------------------------|--|-----------------------------|--|----------|--|
| MATERIAL:              |  | APPROVALS                   |  | DATE     |  |
| 6061-T6 Aluminum       |  | K. Mason                    |  | 8/21/08  |  |
| FINISH:                |  | TYPE                        |  | DATE     |  |
| Gold Plate over Nickel |  | PE2-45-8809R0-1R5-17-12-SFF |  | B. 11K53 |  |
| DO NOT SCALE DRAWING   |  | WEB - MODEL                 |  | A        |  |