

| REVISIONS |     |                  |        | DATE | APPROVED |
|-----------|-----|------------------|--------|------|----------|
| 200       | 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: 0.5 to 4.0 GHz  
Gain: 30dB 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: 130mA 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: -55 to +125 Deg. C (Storage)

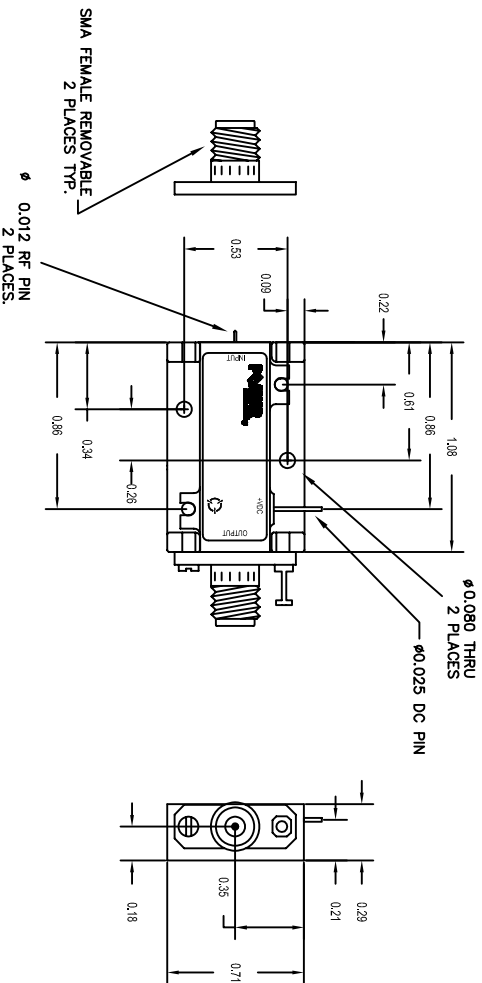
Shock: MIL-STD-202F, METHOD 103B COND B.

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

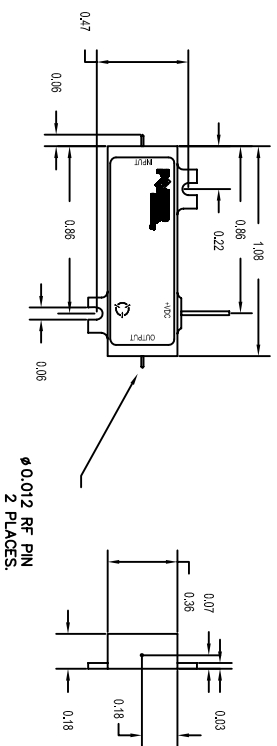
Temperature Cycle: MIL-STD-202F, METHOD 105C COND B.

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  
DO NOT SCALE DRAWING

| PART NO.                 |  | DATE     |  | DATE                        |  |
|--------------------------|--|----------|--|-----------------------------|--|
| MATERIAL:                |  | K. Mason |  | 2/27/03                     |  |
| 6061-T6 Aluminum         |  | FINISH:  |  | PE2-30-0854R0-4R5-15-12-SFF |  |
| Gold Plating over Nickel |  | B. 1LK53 |  | WEB - MODEL A               |  |
| DO NOT SCALE DRAWING     |  | REV      |  | REV                         |  |
|                          |  | 1 OF 1   |  |                             |  |