

REV		DESCRIPTION		DATE		APPROVED	
1	-	ORIGINAL RELEASE		2/7/08			

**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: 45dB Typ.
- Gain Flatness: +/-1.25dB 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: 200mA Max.

**Features:**

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

**Available Options:**

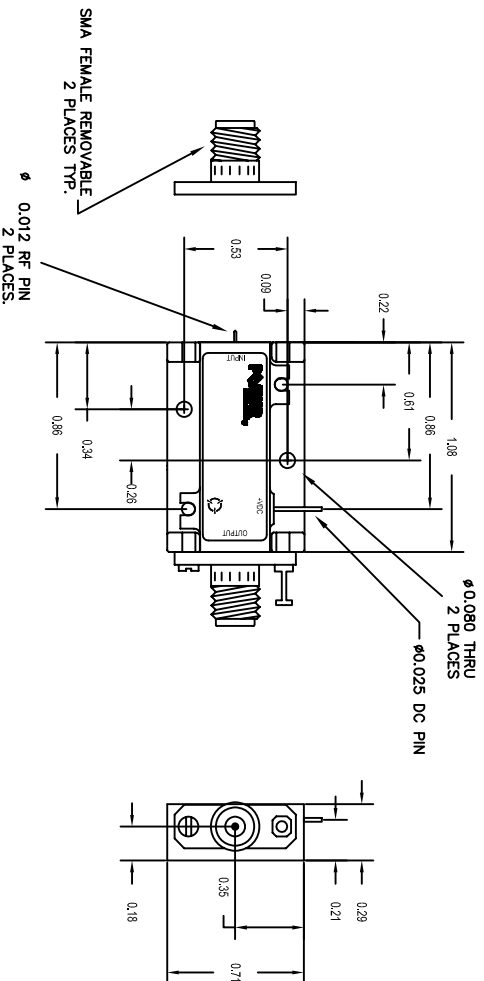
- Various Package types
- Various Connector types
- Temperature Compensation
- Hermetic Sealing
- Gain and Phase Matching
- MIL-STD-883 Screening Available

**Environmental Ratings:**

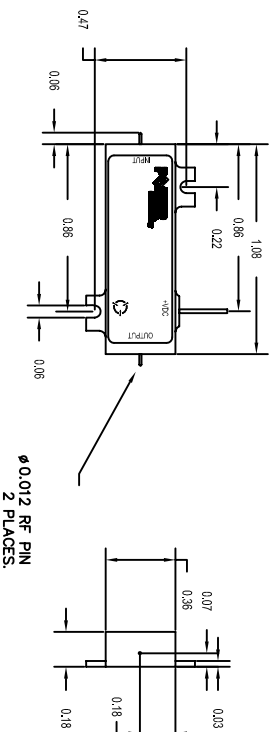
- Temperature: -20 to +70 Deg. C (Operating) ; -55 to +85 Deg C Available)
- Humidity: MIL-STD-202F, METHOD 103B COND B.
- Shock: MIL-STD-202F, METHOD 2138 COND B.
- Altitude: MIL-STD-202F, METHOD 105C COND B.
- Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

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

MATERIAL:		FINISH:		PART NO.	
6061-T6 Aluminum		Gold Plate over Nickel		5715 Industry Lot#6, Unit 11	
TOLERANCES ARE:		FINISH:		PRODUCT FEATURE	
FRACTIONS DECIMALS ANGLES		Gold Plate over Nickel		PE2-45-1B04R0-4R5-15-12-SF	
± .XX ± 0.010 ±		DO NOT SCALE DRAWING		B.1LK53	
± .XXX ± 0.005				WEB - MODEL A	
				REV 1 OF 1	