



The **MP700/1000/110K-LNA** is a Low Noise Amplifier, suitable for various Broad Band applications. The amplifier employs GaAs Enhancement-mode pHEMT devices that provide high efficiency, Low noise Figure, wide dynamic range, and linearity. Its compact size makes it ideal for portable applications.

Model: MP700/1000/110K-LNA

| 1. Electrical Characteristics | | | 2. Mechanical Characteristics | |
|-------------------------------|---------------------------|---|-------------------------------|----------------------|
| Item | Value | Note | RF IN/OUT Connector | SMA 4 Holes Female |
| Frequency Range | 40 ~ 1000 MHz | | DC Input | #8 Feed Thru |
| Gain | 11 dB ± 0.5dB | | Dimensions | 2.1" x 1.85" x 0.62" |
| Gain Flatness | ± 0.25 dB (Max.) | Over Freq. Range 550 ~ 850 MHz | | |
| | ± 0.5 dB (Max.) | Over Freq. Range 40 ~ 1000 MHz | | |
| Noise Figure | 1.5 dB (Max.) | Over Freq. Range | | |
| 1dB Compression | +15 dBm (Min.) | | | |
| 3rd. Order Intercept Point | +28.5 dBm (Min.) | 2 CW tones of +0 dBm @ 1 MHz spacing | | |
| Input VSWR | 1.5:1 (Max.) | | | |
| Output VSWR | 1.5:1 (Max.) | | | |
| DC Input Voltage / Current | +15 VDC / 80 mA (Max.) | | | |
| Input / Output Impedance | 50 Ω | | | |
| Max Input RF | +10 dBm | | | |

| 3. Environment Characteristics | |
|--------------------------------|---------------|
| Operating Temperature | -40°C ~ +80°C |

| Revision History | | | |
|------------------|---------------------|---------|--------------|
| REV | Reason to Change | Date | Initialed by |
| A | Actual performance. | 7/11/14 | Y.Z. |

4. Outline Drawing

