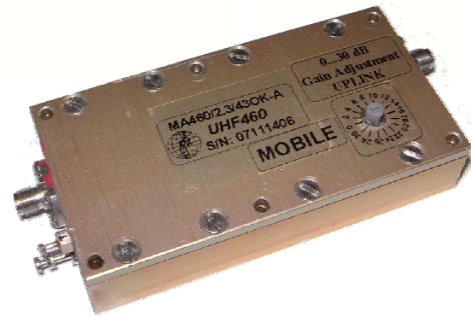




The MA450/1.0/43OK-A1 Low Noise Amplifier (LNA) is suitable for broad band 380-520 MHz Band applications. The LNA employs Enhanced-mode PHEMT technology that provides high linearity and low noise for Wireless Communication purposes.



### Model: MA450/1.0/43OK-A1

| 1. Electrical Characteristics |                        |                     |
|-------------------------------|------------------------|---------------------|
| Item                          | Value                  | Note                |
| Frequency Range               | 380 ~ 520 MHz          |                     |
| Gain                          | 35 (Typ.)              |                     |
| Gain Flatness                 | ± 0.5 dB               | Over Freq. Range    |
| Manual Attenuation Range      | 0-30 dB                | 2-dB steps          |
| Noise Figure                  | 1.0 dB (Max.)          |                     |
| 1dB Compression               | +11 dBm (Typ.)         |                     |
| 3rd. Order Intercept Point    | +29 dBm (Typ.)         | 2 CW Tones at 0 dBm |
| Input VSWR                    | ≤ 1.5                  |                     |
| Output VSWR                   | ≤ 1.5                  |                     |
| Maximum Input (No Damage)     | +10 dBm                |                     |
| DC Input Voltage / Current    | 15 VDC / 0.25 A (Max.) |                     |
| Input / Output Impedance      | 50 Ω                   |                     |

| 2. Mechanical Characteristics |                       |
|-------------------------------|-----------------------|
| RF IN/OUT Connector           | SMA 4 Holes Female    |
| DC Input                      | #8 Feed Thru          |
| Dimensions                    | 3.54" x 1.64" x 0.70" |

| 3. Environment Characteristics |               |
|--------------------------------|---------------|
| Operating Temperature          | -20°C ~ +70°C |

| Revision History |                  |      |              |
|------------------|------------------|------|--------------|
| REV              | Reason to Change | Date | Initialed by |
|                  |                  |      |              |

### 4. Outline Drawing

