

Low Noise Amplifier DM-LNC-30-101

Electrical Specifications (+25°C)

| PARAMETER | UNITS |
|---------------------|----------------------------|
| Frequency | 4.4 to 6.0 GHz |
| Small Signal Gain | 28 dB min |
| Flatness | ±1.0 dB max |
| Noise Figure | 1.0 dB max |
| P1dB | +10 dBm min |
| IP3 | +18 dBm nom |
| VSWR (input/output) | 2.0:1 max |
| DC Power | +12 to +15 VDC, 100 mA nom |
| Max Input Power | +15 dBm CW (over temp) |

Mechanical Specifications

| PARAMETER | UNITS |
|---------------------|----------------------------------|
| Size (L x W x H) | 0.86" x 0.70" x 0.29" |
| Connectors (In/Out) | SMA female |
| Housing Material | Aluminum |
| Sealing | Hermetic |
| Cooling | External heatsink (not included) |
| Outline | 001-0127 |

Features

Internal Voltage Regulator
Reverse Voltage Protection

Environmental Specifications (by design)

| PARAMETER | UNITS |
|-----------------------|---|
| Operating Temperature | -40 to +85°C |
| Storage Temperature | -54 to +85°C |
| Altitude | up to 30,000 ft |
| Vibration | 12 Grms 20 – 2000 Hz (operating) 16 Grms, 20 – 2000 Hz (non-operating) |
| Shock | 20 g terminal peak saw tooth, 11 milliseconds |

Classification

ECCN: EAR99

Test Data

Gain, Flatness, Noise Figure, P1dB, VSWR, DC Power at +25°C