

# Low Noise Amplifier DM-LNMB-13-102

## Electrical Specifications (+25°C)

PARAMETER	UNITS
Frequency	6 to 18.5 GHz
Small Signal Gain	13-16 dB min-max (+25°C) 12.5-16.5 dB min-max (0 to +70°C)
Flatness	±1.0 dB max
Noise Figure	4 dB max 6-12 GHz; 4.5 dB max 12-18 GHz
Noise Figure (+70C°)	4.5 dB max 6-12 GHz; 5 dB max 12-18 GHz
P1dB	+19 dBm min (+25°C), +18 dBm min (+70°C)
OIP3	+27 dBm nom
OIP2	+35 dBm typ
Input/Output	VSWR 2.0:1 nom
DC Power	+11 to +15 VDC, 200 mA nom
Input Power	+10 dBm max CW

## Mechanical Specifications

PARAMETER	UNITS
Size (L x W x H)	0.89" x 1.05" x 0.39"
Connectors (In/Out)	SMA female
Housing Material	Aluminum
Sealing	Hermetic
Cooling	External heatsink (not included)
Outline	001-0028

## Features

Internal Voltage Regulator  
Reverse Voltage Protection

## Environmental Specifications (by design)

PARAMETER	UNITS
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Relative Humidity	IAW MIL-STD-810F, Method 507.4, up to 95%
Altitude	up to 30,000 ft.
Thermal Shock	IAW MIL-STD-810F, Method 503.4 and Proc. II
Vibration	IAW MIL-STD-810F, Method 514.5, 4.12 g RMS 10–2000Hz
Salt Fog	5%, +35°C 24 hrs IAW MIL-STD-210G method 509.4
Fungus	IAW MIL-STD-810G method 508.5

## Classification

ECCN: EAR99

## Test Data

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