



**Model LN1000B,
M1 through M3
Low Noise Pre-Amp
10kHz–1000MHz**

The Model LN1000B is a broadband, self-contained linear amplifier for laboratory applications requiring instantaneous bandwidth and low noise.

The LN1000B is useful for amplifying low level signals to more useful levels for driving power amplifiers and other similar applications. In addition, with its low noise figure it can be used to increase the sensitivity of receivers with relatively high noise figures.

The LN1000B contains an internal power supply which automatically adjusts for the AC input voltage. The AC input connector is an IEC 320 type located on the rear panel

The LN1000B can be supplied in a benchtop cabinet with the RF connectors located on the front panel or the rear panel. The LN1000B can also be supplied without the cabinet for rack mounting, front or rear RF connectors.

SPECIFICATIONS

- POWER OUTPUT..... +11 dBm at less than 1 dB gain compression
- FREQUENCY RESPONSE..... 10kHz-1000MHz
- INPUT FOR RATED OUTPUT-18 dBm maximum
- GAIN.....30 dB minimum
- GAIN FLATNESS.....±1.5 dB
- NOISE FIGURE.....3.5 dB typical, 4.5dB maximum (2–1000MHz)
- INPUT IMPEDANCE50 ohms, VSWR 2.5:1 maximum
- OUTPUT IMPEDANCE.....50 ohms, VSWR 2.0:1 maximum
- MISMATCH TOLERANCE 100%, will operate without damage, foldback or oscillation with any magnitude and phase of source and load impedance.
- MODULATION CAPABILITY Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
- HARMONIC DISTORTION-20 dBc maximum at +11 dBm output
- THIRD ORDER INTERCEPT POINT..... +21 dBm typical
- PRIMARY POWER (selected automatically) 100-240 VAC, 50/60 Hz with an IEC 320 AC input connector

MODEL	CONNECTORS	MODEL CONFIGURATIONS		WEIGHT
		STYLE	SIZE (W x H x D)	
LN1000B	N Front	Benchtop	26.0 x 11.7 x 21.6 cm 10.3 x 4.6 x 8.5 in	4.5 kg, 10.0 lbs
LN1000BM1	N Rear	Benchtop	26.0 x 11.7 x 21.6 cm 10.3 x 4.6 x 8.5 in	4.5 kg, 10.0 lbs
LN1000BM2	N Front	Rack mount	24.1 x 8.9 x 20.3 cm 9.5 x 3.5 x 8.0 in	1.8 kg, 4.0 lbs
LN1000BM3	N Rear	Rack mount	24.1 x 8.9 x 20.3 cm 9.5 x 3.5 x 8.0 in	1.8 kg, 4.0 lbs