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 IMPEDANCE ........................................... 50 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

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