The Model 1W1000B amplifier is a solid state, self-contained, air-cooled, broadband amplifier designed for applications where instantaneous bandwidth and high gain are required. The 1W1000B, when used with an RF sweep generator, will provide a minimum of 1.0 watt of swept power.

Housed in a stylish, contemporary enclosure, the Model 1W1000B provides readily available RF power for typical applications such as RF susceptibility testing, antenna and component testing, watt meter calibration and as a driver for frequency multipliers and high power amplifiers.

**1W1000B TYPICAL POWER OUTPUT**

![Graph showing typical power output of the 1W1000B amplifier across different frequencies. The graph indicates linear power output at 1dB and 3dB compression.]
SPECIFICATIONS, MODEL 1W1000B

RATED OUTPUT POWER ............................................... 1.0 watts minimum

INPUT FOR RATED OUTPUT .......................................... 1.0 milli watt maximum

POWER OUTPUT @ 3dB compression
   Nominal ............................................................... 2.5 watts
   Minimum .......................................................... 1.0 watts

POWER OUTPUT @ 1dB compression
   Nominal ............................................................... 2 watts
   Minimum .......................................................... 1.0 watts

FLATNESS ................................................................... ±0.5 dB typical
   ±1.0 dB maximum

FREQUENCY RESPONSE ............................................... 100 kHz-1000 MHz instantaneously

GAIN ............................................................. 30 dB minimum

INPUT IMPEDANCE ....................................................... 50 ohms, VSWR 2.0:1 maximum

OUTPUT IMPEDANCE .................................................. 50 ohms nominal

MISMATCH TOLERANCE * ...........................................100% of rated power without foldback. Will operate without damage 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 ............................................. Minus 20 dBc maximum at 1.0 watts

THIRD ORDER INTERCEPT POINT ................................. 42 dBm typical

PRIMARY POWER ......................................................... 90-264 VAC
   47-440Hz, single phase
   60 watts maximum

CONNECTORS ................................................................ See Model Configuration

COOLING ..................................................................... Forced air (self-contained fan)

WEIGHT ....................................................................... See Model Configuration

SIZE (W x H x D) .................................................. See Model Configuration

* See Application Note #27

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CONNECTORS TYPE/LOCATION</th>
<th>MODEL CONFIGURATIONS STYLE</th>
<th>SIZE W x H x D</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1W1000B</td>
<td>N Front</td>
<td>Benchtop</td>
<td>26.0 x 11.7 x 21.6 cm</td>
<td>4.5 kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.3 x 4.6 x 8.5 in</td>
<td>10.0 lbs</td>
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<td>1W1000BM1</td>
<td>N Rear</td>
<td>Benchtop</td>
<td>26.0 x 11.7 x 21.6 cm</td>
<td>4.5 kg</td>
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<td>10.3 x 4.6 x 8.5 in</td>
<td>10.0 lbs</td>
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<tr>
<td>1W1000BM2</td>
<td>N Front</td>
<td>Rack mount</td>
<td>24.1 x 8.9 x 20.3 cm</td>
<td>1.8 kg</td>
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<td></td>
<td></td>
<td></td>
<td>9.5 x 3.5 x 8.0 in</td>
<td>4.0 lbs</td>
</tr>
<tr>
<td>1W1000BM3</td>
<td>N Rear</td>
<td>Rack mount</td>
<td>24.1 x 8.9 x 20.3 cm</td>
<td>1.8 kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>9.5 x 3.5 x 8.0 in</td>
<td>4.0 lbs</td>
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