



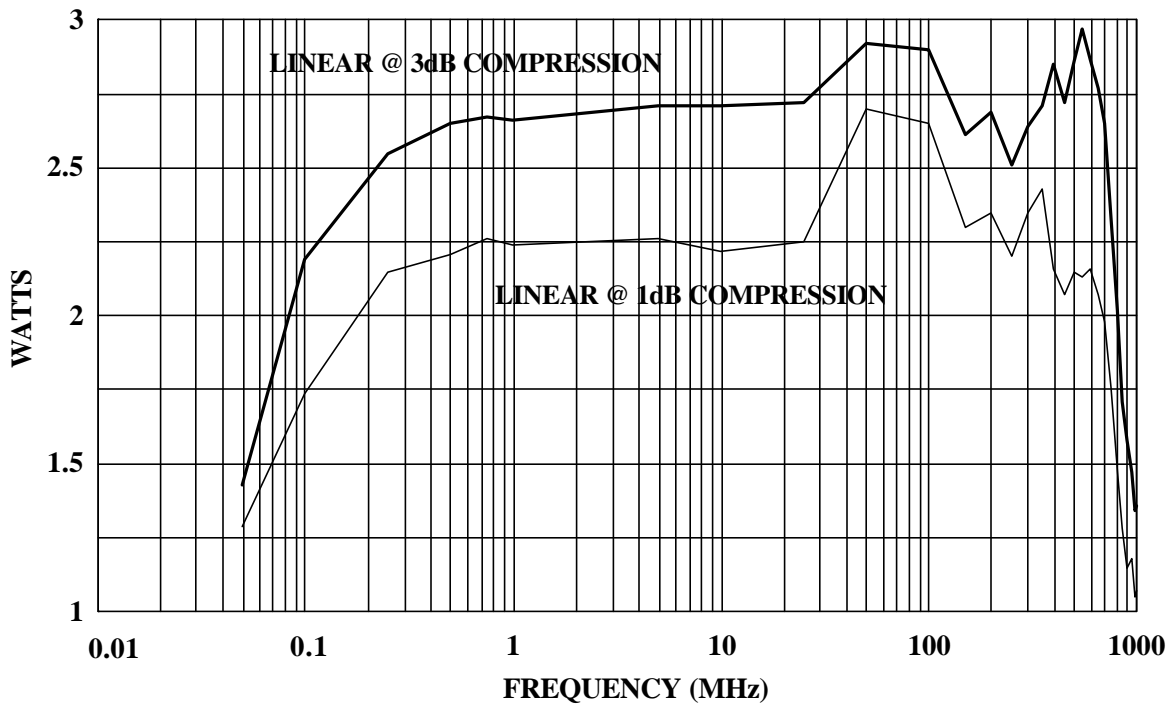
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MODEL 1W1000B  
M1, M2, M3  
1.0 WATTS CW  
100 kHz - 1000 MHz

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



## SPECIFICATIONS Model 1W1000B

<b>RATED OUTPUT POWER</b> .....	<i>1.0 watts minimum</i>
<b>INPUT FOR RATED OUTPUT</b> .....	<i>1.0 milliwatt maximum</i>
<b>POWER OUTPUT @ 3dB compression</b>	
<i>Nominal</i> .....	<i>2.5 watts</i>
<i>Minimum</i> .....	<i>1.0 watts</i>
<b>POWER OUTPUT @ 1dB compression</b>	
<i>Nominal</i> .....	<i>2 watts</i>
<i>Minimum</i> .....	<i>1.0 watts</i>
<b>FLATNESS</b> .....	<i>±0.5 dB typical</i> <i>±1.0 dB maximum</i>
<b>FREQUENCY RESPONSE</b> .....	<i>100 kHz-1000 MHz instantaneously</i>
<b>GAIN</b> .....	<i>30 dB minimum</i>
<b>INPUT IMPEDANCE</b> .....	<i>50 ohms, VSWR 2.0:1 maximum</i>
<b>OUTPUT IMPEDANCE</b> .....	<i>50 ohms, VSWR 2.5:1 maximum</i>
<b>MISMATCH TOLERANCE *</b> .....	<i>100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.</i>
<b>MODULATION CAPABILITY</b> .....	<i>Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal</i>
<b>HARMONIC DISTORTION</b> .....	<i>Minus 20 dBc maximum at 1.0 watts</i>
<b>THIRD ORDER INTERCEPT POINT</b> .....	<i>42 dBm typical</i>
<b>PRIMARY POWER</b> .....	<i>90-264 VAC</i> <i>47-440Hz, single phase</i> <i>60 watts maximum</i>
<b>CONNECTORS</b> .....	<i>See Model Configuration</i>
<b>COOLING</b> .....	<i>Forced air (self-contained fan)</i>
<b>WEIGHT</b> .....	<i>See Model Configuration</i>
<b>SIZE (WxHxD)</b> .....	<i>See Model Configuration</i>

\* See Application Note #27

### MODEL CONFIGURATIONS

MODEL	CONNECTORS TYPE/LOCATION	STYLE	SIZE W x H x D	WEIGHT
1W1000B	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
1W1000BM1	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
1W1000BM2	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
1W1000BM3	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