

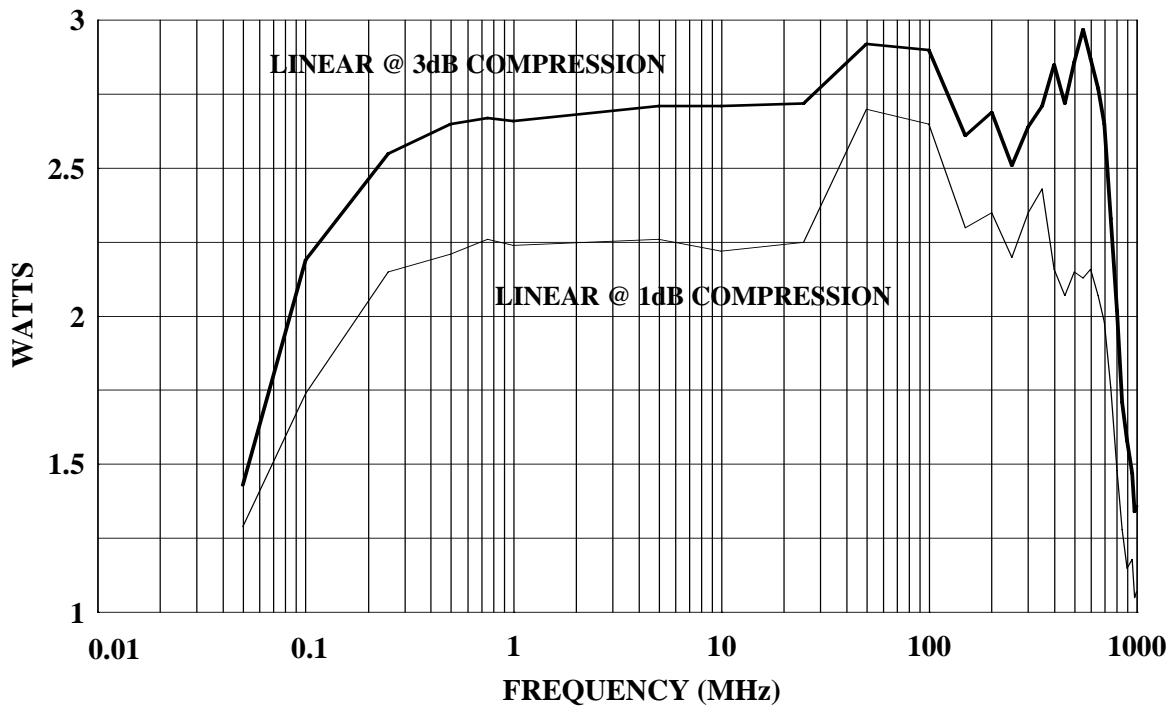


**Model 1W1000B,
M1 through M3
1 Watt CW
100kHz–1000MHz**

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

RATED OUTPUT POWER 1.0 watts minimum

INPUT FOR RATED OUTPUT 1.0 milliwatt 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 (WxHxD) See Model Configuration

* See Application Note #27

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