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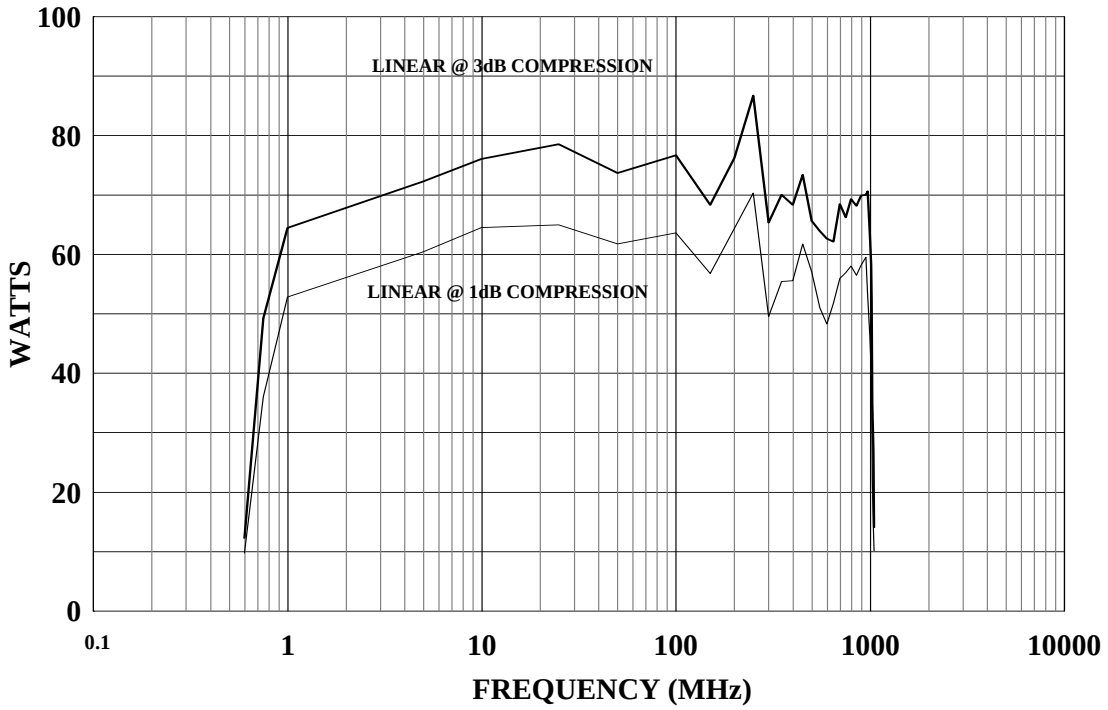
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Model 50W1000B
M1 through M5
50 Watts CW
1MHz–1000MHz

The Model 50W1000B is a portable, self-contained, air-cooled, broadband, solid state amplifier designed for applications where instantaneous bandwidth and high gain are required. Push-pull circuitry is utilized in the high power stages to lower distortion and improve stability. The 50W1000B, when used with an RF sweep generator, will provide a minimum of 50 watts of swept power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 50W1000B is protected from RF input overdrive by limiting diodes and an RF input leveling circuit which controls the RF input level to the RF amplifier first stage when the RF input level is increased above 0 dBm. The RF Amplifier stages are protected from over temperature by removing the DC voltage to them if an over temperature condition occurs due to cooling blockage or fan failure. There is a digital display on the front panel to indicate the operate status and fault conditions when an over temperature, power supply, or amplifier fault has occurred. The unit can be returned to operate when the condition has been cleared. The 50W1000B includes digital control for both local and remote control of the amplifier. This 8-bit RISC microprocessor controlled board provides both IEEE-488 (GPIB) and asynchronous, full duplex RS-232 control of all amplifier functions.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

50W1000B TYPICAL POWER OUTPUT



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SPECIFICATIONS, MODEL 50W1000B

RATED OUTPUT POWER ..... 50 watts minimum

INPUT FOR RATED OUTPUT ..... 1.0 milliwatt maximum

POWER OUTPUT @ 3dB COMPRESSION
- Nominal ..... 70 watts
- Minimum ..... 50 watts

POWER OUTPUT @ 1dB COMPRESSION
- Nominal ..... 55 watts
- Minimum ..... 40 watts

FLATNESS ..... ±1.0 dB typical
±1.5 dB maximum

FREQUENCY RESPONSE ..... 1-1000 MHz instantaneously

GAIN (at maximum setting) ..... 47 dB minimum

GAIN ADJUSTMENT (Continuous Range) ..... 20 dB minimum (4096 steps remote)

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.
* See Application Note #27

MODULATION CAPABILITY ..... Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal

HARMONIC DISTORTION ..... Minus 20 dBc maximum at 50 watts

THIRD ORDER INTERCEPT POINT ..... 57 dBm typical

PRIMARY POWER (selected automatically) ..... 90-132, 180-264 VAC
50/60 Hz, single phase
600 watts maximum

REMOTE INTERFACES IEEE-488, RS-232

CONNECTORS
- RF ..... Type N female
- REMOTE CONTROL
  - IEEE-488 ..... 24 pin female
  - RS-232 ..... 9 pin Subminiature D (female)

REMOTE INTERLOCK ..... 15 Pin Subminiature D

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

WEIGHT ..... See Model Configurations

SIZE (WxHxD) ..... See Model Configurations

MODEL CONFIGURATIONS

MODEL	RF INPUT	RF OUTPUT	WEIGHT	SIZE (W x H x D)
50W1000B	Type N female on front panel	Type N female on front panel	25.9 kg (57.0 lb)	50.3 x 20.3 x 45.7 cm 19.8 x 8.0 x 18.1 in
50W1000BM1	Type N female on rear panel	Type N female on rear panel	25.9 kg (57.0 lb)	50.3 x 20.3 x 45.7 cm 19.8 x 8.0 x 18.1 in
50W1000BM2	Same as 50W1000B with enclosure removed for rack mounting		16.4 kg (36.0 lb)	48.3 x 17.8 x 46.0 cm 19.0 x 7.0 x 18.1 in
50W1000BM3	Same as 50W1000BM1 with enclosure removed for rack mounting		16.4 kg (36.0 lb)	48.3 x 17.8 x 46.0 cm 19.0 x 7.0 x 18.1 in
50W1000BM4	Same as 50W1000BM2 with gain control removed		16.4 kg (36.0 lb)	48.3 x 17.8 x 46.0 cm 19.0 x 7.0 x 18.1 in
50W1000BM5	Type N female on front panel	Type N female on rear panel	16.4 kg (36.0 lb)	48.3 x 17.8 x 46.0 cm 19.0 x 7.0 x 18.1 in
	Enclosure removed for rack mounting			

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