

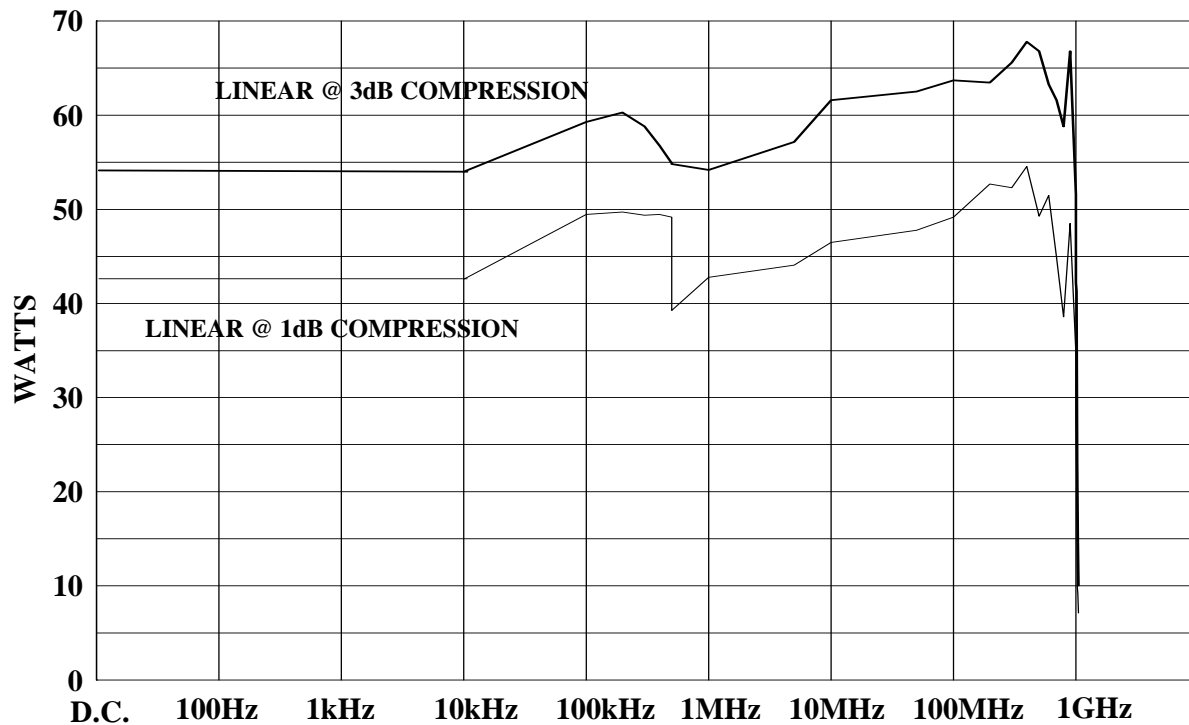


rf/microwave instrumentation

**Model 50WD1000,
M1 through M3
50 Watts CW
DC-1000MHz**

The Model 50WD1000 is a portable, self-contained, air-cooled, broadband, solid state amplifier designed for applications where extensive bandwidth and high gain are required. Push-pull circuitry is utilized in all of the high power stages in the interest of lowering distortion and improving stability. The Model 50WD1000 covers the frequency range from D.C. to 1000MHz in two bands. The low band covers from DC to 0.5MHz. The high band covers from 0.5MHz to 1000MHz. These bands can be selected automatically, manually or by remote control through the remote connector. The 50WD1000, when used with an RF sweep generator, will provide a minimum of 50 watts of swept power. Provisions are included for the remote control of the basic operating functions of the amplifier. Computer control can be accomplished using our CP2001 or CP3000 accessories.

50WD1000 TYPICAL POWER OUTPUT



SPECIFICATIONS, MODEL 50WD1000

RATED OUTPUT POWER	50 watts minimum
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
POWER OUTPUT @ 3dB COMPRESSION	
Nominal	60 watts
Minimum	40 watts
POWER OUTPUT @ 1dB COMPRESSION	
Nominal	50 watts
Minimum	30 watts
FLATNESS.....	±1.0 dB typical ±1.5 dB maximum
FREQUENCY RESPONSE	DC-1000 MHz
(In two bands selected automatically or manually)	
GAIN	47 dB minimum
INPUT IMPEDANCE.....	50 ohms, VSWR 2.0:1 maximum
OUTPUT IMPEDANCE	50 ohms, nominal
MISMATCH TOLERANCE*	100% of rated output power. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. * See <i>Application Note #27</i>
MODULATION CAPABILITY.....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
HARMONIC DISTORTION.....	Minus 20 dBc maximum at 35 watts
THIRD ORDER INTERCEPT POINT	56 dBm typical
PRIMARY POWER (selected automatically).....	90 to 132; 180 to 264 VAC 50/60 Hz, single phase 700 watts maximum
RF CONNECTORS	See Model Configuration
REMOTE CONTROL.....	25 Pin Subminiature D on rear panel
COOLING.....	Forced air (self contained fans)

MODEL	RF INPUT	MODEL CONFIGURATION RF OUTPUT	WEIGHT	HEIGHT
50WD1000	Type N female on front panel	Type N female on front panel	29 Kg (64 lb)	50.3 x 24.9 x 45.7 cm 19.8 x 9.8 x 18.0 in
50WD1000M1	Type N female on rear panel	Type N female on rear panel	29 Kg (64 lb)	50.3 x 24.9 x 45.7 cm 19.8 x 9.8 x 18.0 in
50WD1000M2	Same as 50WD1000 with enclosure removed for rack mounting		19.5 Kg (43 lb)	48.3 x 22.2 x 45.7 cm 19.0 x 8.75 x 18.0 in
50WD1000M3	Same as 50WD1000M1 with enclosure removed for rack mounting		19.5 Kg (43 lb)	48.3 x 22.2 x 45.7 cm 19.0 x 8.75 x 18.0 in