

## 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

MODEL	<b>RF INPUT</b>	RF OUTPUT	WEIGHT	HEIGHT	
COOLING		Eorced air (self contained fans)			
REMOTE CONTROL		25 Pin Subminiature D on rear page	el		
RF CONNECTORS		See Model Configuration			
PRIMARY POWER (selecte	d automatically)	90 to 132; 180 to 264 VAC 50/60 Hz, single phase 700 watts maximum			
THIRD ORDER INTERCEP	T POINT	56 dBm typical			
HARMONIC DISTORTION	۷	Minus 20 dBc maximum at 35 watts	3		
MODULATION CAPABILI	ΤΥ	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.			
MISMATCH TOLERANCE <sup>2</sup>	*				
OUTPUT IMPEDANCE		50 ohms, nominal			
INPUT IMPEDANCE		50 ohms, VSWR 2.0:1 maximum			
GAIN		47 dB minimum			
FREQUENCY RESPONSE (In two bands selected au	tomatically or manually)	DC-1000 MHz			
FLAINESS		$\pm 1.5 \text{ dB typical}$			
POWER OUTPUT @ 1dB Nominal Minimum	COMPRESSION				
POWER OUTPUT @ 3dB Nominal Minimum	COMPRESSION	60 watts 40 watts			
INPUT FOR RATED OUTP	PUTTU	1.0 milliwatt maximum			
RATED OUTPUT POWER		50 watts minimum			

MODEL	RF INPUT	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