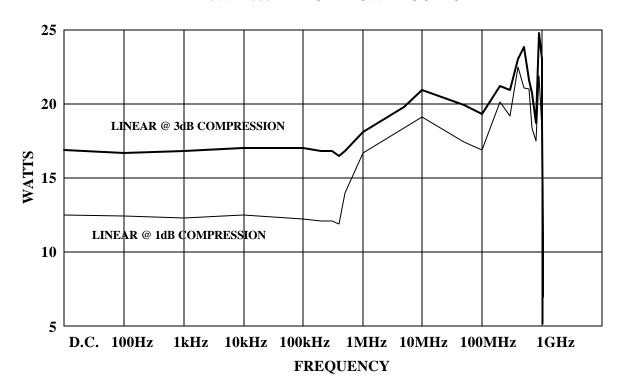


MODELS 10WD1000 M1, M2, M3, M4 10 WATTS CW DC - 1000 MHz

The Model 10WD1000 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 10WD1000 covers the frequency range from DC 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 10WD1000, when used with an RF sweep generator, will provide a minimum of 10 watts of swept power. 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 or power supply fault has occurred. The unit can be returned to operate when the condition has been cleared. The 10WD1000 includes digital control for both local and remote control of the amplifier. This 8-bit RISC microprocessor controlled board provides IEEE-488 (GPIB) and asynchronous full duplex RS-232 control of all amplifier functions.

10WD1000 TYPICAL POWER OUTPUT



SPECIFICATIONS Model 10WD1000

RATED OUTPUT POWER	15 watts minimum		
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum		
POWER OUTPUT @ 3dB COMPRESSION Nominal			
POWER OUTPUT @ 1dB COMPRESSION Nominal Minimum			
FLATNESS	. ±1.0 dB typical ±1.5 dB maximum		
FREQUENCY RESPONSE(In two bands selected automatically, manually or buss)	. DC-1000 MHz		
GAIN	. 40 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 or foldback 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 10 watts		
THIRD ORDER INTERCEPT POINT	. 50 dBm typical		
PRIMARY POWER (selected automatically)	. 85 to 264 VAC 47 to 440 Hz 500 watts maximum		
REMOTE INTERFACES	. IEEE-488, RS-232		
CONNECTORS RF REMOTE CONTROL	• •		
IEEE-488 RS-232			
SAFETY INTERLOCK	. 15 Pin Subminiature D		
COOLING	. Forced air (self contained fans)		
WEIGHT	. See Model Configurations		
SIZE (WxHxD)* * See Application Note #27			

MODEL CONFIGURATIONS

MODEL NUMBER	RF INPUT	RF OUTPUT	WEIGHT	WEIGHT
10WD1000	Type N female on front panel	Type N female on front panel	20.5 kg (45.0 lb)	50.3 x 15.5 x 37.6 cm 19.8 x 6.1 x 14.8 in
10WD1000M1	Type N female on rear panel	Type N female on rear panel	20.5 kg (45.0 lb)	50.3 x 15.5 x 37.6 cm 19.8 x 6.1 x 14.8 in
10WD1000M2	Same as 10WD1000 with enclo	16.0 kg (35.0 lb)	48.3 x 12.7 x 37.6 cm 19.0 x 5.0 x 14.8 in	
10WD1000M3	Same as 10WD1000M1 with enclosure removed for rack mounting		16.0 kg (35.0 lb)	48.3 x 12.7 x 37.6 cm 19.0 x 5.0 x 14.8 in
10WD1000M4	0M4 Same as 10WD1000M2 with slides for rack mounting		16.0 kg (35.0 lb)	48.3 x 12.7 x 37.6 cm 19.0 x 5.0 x 14.8 in