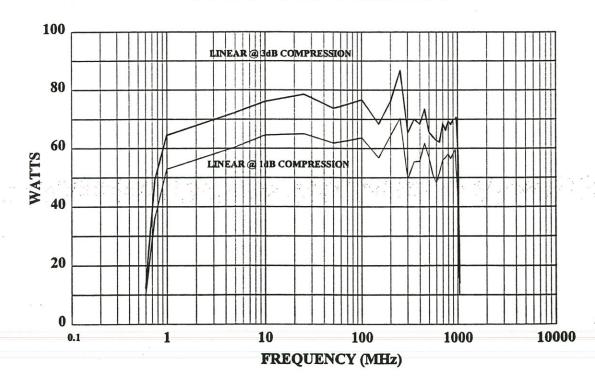
MODELS 50W1000B, M1, M2 M3 50 WATTS CW 1 - 1000 MHz

This update adds a 3dB output power graph to the spec sheet.

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.

50W1000B TYPICAL POWER OUTPUT



REV020199

SPECIFICATIONS Model 50W1000B

RATED OUTPUT POWER	50 watts minimum	
INPUT FOR RATED OUTPUT		
POWER OUTPUT @ 3dB COMPRESSION	The state of the s	
Nominal	70	
Minimum	50 waits	
POWER OUTPUT @ 1dB COMPRESSION		
Nominal	55	
Minimum	······································	
FLATNESS	±1.0 dB 4	
	±1.5 dB maximum	
FREQUENCY RESPONSE		
GALIN (at maximum setting)	47 dB minimum	
GAIN ADJUSTMENT (Continuous Range)		
INPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum	
OUTPUT IMPEDANCE		
	with out drawn without foldback. Will operate	
	without damage or oscillation with any magnitude and phase of source and load impedance.	
MODULATION CARABILITY		
MODULATION CANADILITI	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 male	
RS-232	9 pin Subminiature D (male)	
REMOTE INTERLOCK	15 Pin Subminiature D	
COOFFICE	Forced air (self contained fans)	
WEIGHT		
SIZE (WxHxD)* * See Application Note #27	See Model Configurations	
	ONFIGURATIONS	
MODELC	211110101A110119	

MODEL CONFIGURATIONS

MODEL NUMBER	RF INPUT	RF OUTPUT	WEIGHT	WEIGHT
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 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
50W1000BM3			16.4 kg (36.0 lb)	48.3 x 17.8 x 46.0 cm 19.0 x 7.0 x 18.1 in