



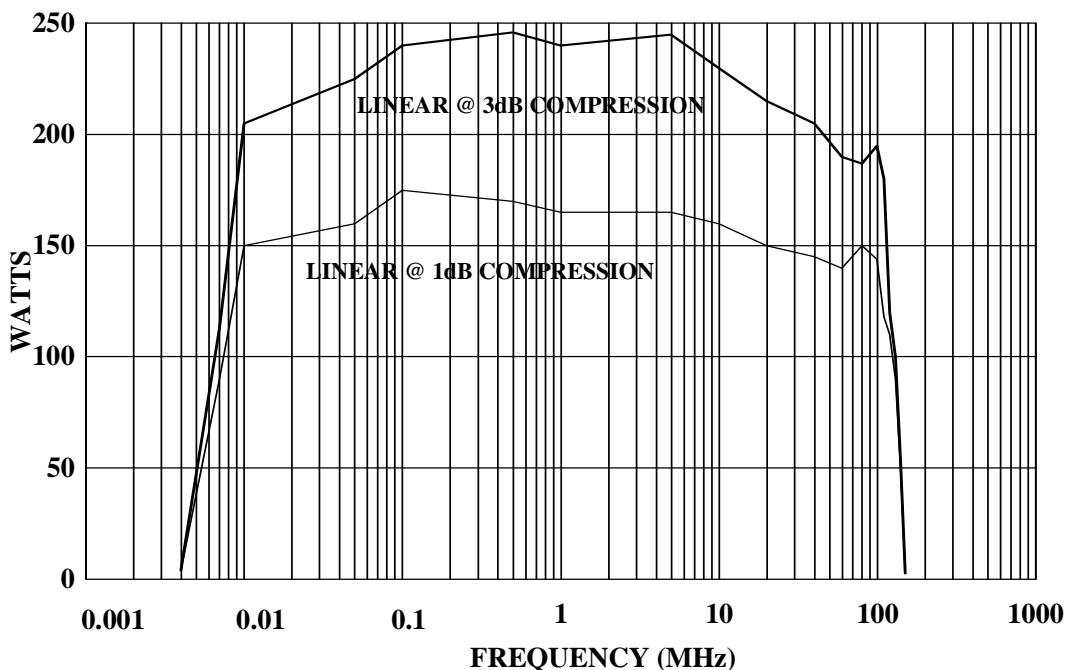
**Model 150A100B,
M1 through M4
150 Watts CW
10kHz–100MHz**

The Model 150A100B amplifier is a self-contained, broadband unit designed for laboratory applications where instantaneous bandwidth, high gain and moderate power output are required. Utilization of push-pull MOSFET circuitry lowers distortion, improves stability and allows operation into any load impedance without damage. The Model 150A100B, when used with an RF sweep generator, will provide a minimum of 150 watts of swept power.

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 150A100B 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.

Housed in a stylish, contemporary enclosure, the Model 150A100B provides readily available RF power for typical applications such as RF susceptibility testing, antenna and component testing, watt meter calibration, and use as a driver for higher power amplifiers.

150A100B TYPICAL POWER OUTPUT



SPECIFICATIONS, MODEL 150A100B

RATED POWER OUTPUT	150 watts
INPUT FOR RATED OUPUT.....	1.0 milliwatt maximum
POWER OUTPUT @ 3db COMPRESSION	
Nominal.....	220 watts
Minimum.....	180 watts
POWER OUPUT @ 1db COMPRESSION	
Nominal.....	155 watts
Minimum.....	125 watts
FLATNESS.....	± 1.5 dB maximum
FREQUENCY RESPONSE	10 kHz - 100 MHz instantaneously
GAIN	52 dB minimum
GAIN ADJUSTMENT RANGE	18 dB minimum
INPUT IMPEDANCE.....	50 ohms, VSWR 1.5:1 maximum
OUTPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum
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
NOISE FIGURE (above 1.0 MHz).....	6 dB typical
HARMONIC DISTORTION.....	Minus 20 dBc maximum at 125 watts
THIRD ORDER INTERCEPT POINT	58 dBm typical
PRIMARY POWER	90-135/180-270 VAC auto ranging 47-63Hz, single-phase. 1000 watts maximum
REMOTE INTERFACES	IEEE-488, RS-232
CONNECTORS	
RF.....	Type N female. See Model Configurations for location.
REMOTE CONTROL	
IEEE-488.....	24 pin male
RS-232	9 pin Subminiature D (male)
REMOTE INTERLOCK.....	15 Pin Subminiature D
COOLING.....	Forced air (self contained fans)

MODEL CONFIGURATIONS

MODEL NUMBER	RF INPUT	RF OUTPUT	WEIGHT	SIZE (WxHxD)
150A100B	Front panel	Front panel	31.75 kg (70.0 lb)	50.3 x 25.2 x 46.0 cm 19.8 x 9.9 x 18.1 in
150A100BM1	Rear panel	Rear panel	31.75 kg (70.0 lb)	50.3 x 25.2 x 46.0 cm 19.8 x 9.9 x 18.1 in
150A100BM2	Same as 150A100B with enclosure removed for rack mounting		22.15 kg (49.0 lb)	48.3 x 22.25 x 43.2 cm 19.0 x 8.75 x 17 in
150A100BM3	Same as 150A100BM1 with enclosure removed for rack mounting		22.15 kg (49.0 lb)	48.3 x 22.25 x 43.2 cm 19.0 x 8.75 x 17 in
150A100BM4	Same as 150A100B and harmonic distortion is -25 dBc at 100 watts		31.75 kg (70.0 lb)	50.3 x 25.2 x 46.0 cm 19.8 x 9.9 x 18.1 in