

## rf/microwave instrumentation

Model 150A100B, M1 through M5 150 Watts CW 10kHz-100MHz

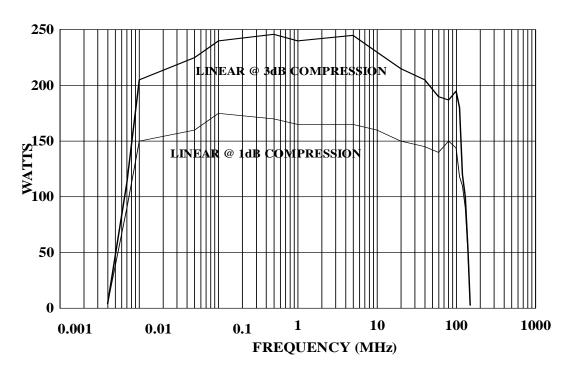
The Model 150A100B amplifier is a self-contained, broadband unit designed for laboratory applications where instantaneous bandwidth, high gain and moderate power output are required. Utilization of push-pull MOSFET circuitry lowers distortion, improves stability and allows operation into any load impedance 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.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

## 150A100B TYPICAL POWER OUTPUT



## SPECIFICATIONS, MODEL 150A100B

POWER OUTPUT @ 3db COMPRESSION Minimum......180 watts POWER OUPUT @ 1db COMPRESSION FLATNESS ..... ± 1.5 dB maximum 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 1000 watts maximum REMOTE INTERFACES ......IEEE-488, RS-232 **CONNECTORS** REMOTE CONTROL IEEE-488......24 pin male RS-232 ......9 pin Subminiature D (male) 

## **MODEL CONFIGURATIONS**

MODEL	RF INPUT	RF OUTPUT	WEIGHT	SIZE
NUMBER				(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	A100BM3 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	DA100BM4 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
150A100BM5	5 Same as 150A100B with >200W P3dB 1-3.5MHz		31.75 kg (70.0 lb	50.3 x 25.2 x 46.0 cm
				19.8 x 9.9 x 18.1 in

COOLING......Forced air (self contained fans)