AMPLIFIER RESEARCH
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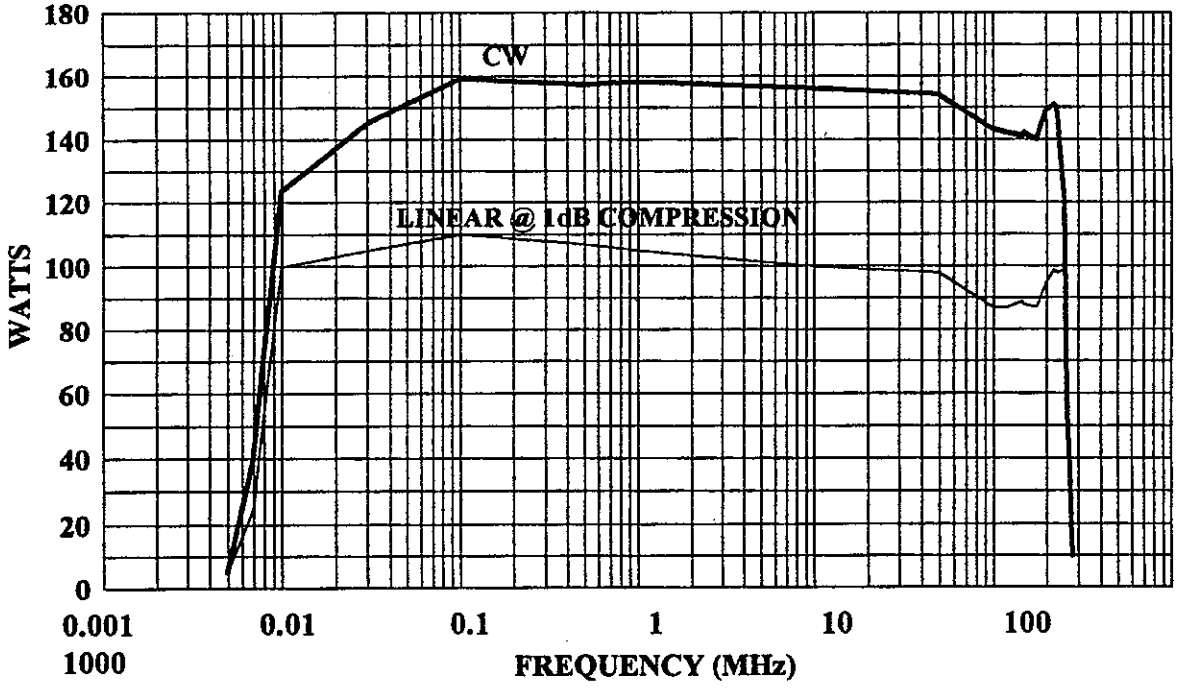
MODEL 100A250
100 WATTS CW
10 kHz - 250 MHz

The Model 100A250 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 100A250, when used with an RF sweep generator, will provide a minimum of 100 watts of swept power.

Included is a front panel gain control which permits the operator to conveniently set the desired output level. Housed in a stylish, contemporary enclosure, the Model 100A250 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.

100A250 TYPICAL POWER OUTPUT



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SPECIFICATIONS
Model 100A250

POWER OUTPUT, CW	
Nominal	*145 watts*
Minimum	*100 watts*
Linear @ 1dB compression	*75 watts minimum*
FLATNESS	*± 1.5 dB maximum*
FREQUENCY RESPONSE	*10 kHz - 250 MHz instantaneously*
INPUT FOR RATED OUTPUT	*1.0 milliwatt maximum*
GAIN (at maximum setting)	*50 dB minimum*
GAIN ADJUSTMENT (continuous 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*
MODULATION CAPABILITY	*Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal*
NOISE FIGURE (above 1.0 MHz)	*10 dB typical*
HARMONIC DISTORTION	*Minus 20 dBc maximum at 75 watts*
THIRD ORDER INTERCEPT POINT	*58 dBm typical*
PRIMARY POWER	*90 - 135 / 180 - 270 VAC autoranging 47/63 Hz, single phase 1000 watts maximum*
CONNECTORS	
RF input	*Type BNC female*
RF output	*Type N female*
COOLING	*Forced air (self contained fans)*
WEIGHT, maximum	*31.75 kg (70.0 lb)*
SIZE (WxHxD)	*50.3 x 25.2 x 46.0 cm 19.8 x 9.9 x 18.1 in*

** See Application Note #27*