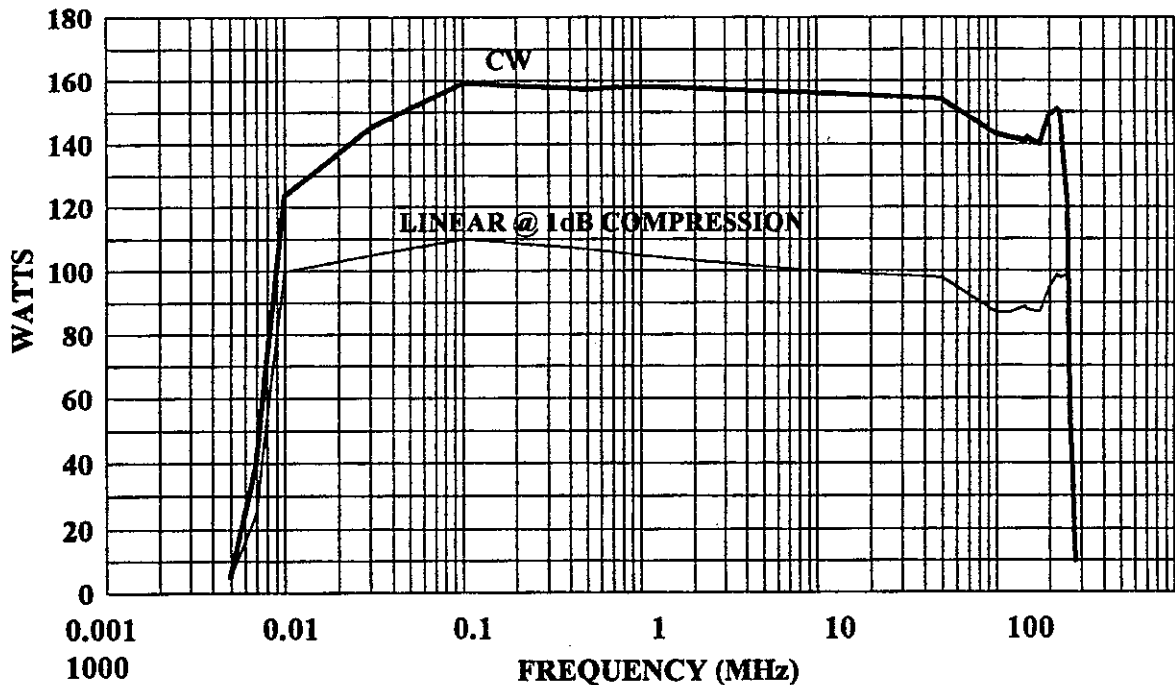


The Model 100A250 amplifier is a self-contained, broadband unit designed for laboratory applications where instantaneous bandwidth, high gain and moderate power output are required. Utilization of push-pull MOSFET circuitry lowers distortion, improves stability and allows operation into any load impedance 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



**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