

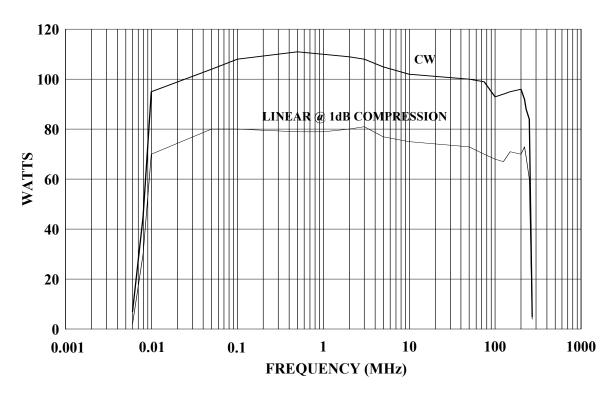
MODEL 75A250 75 WATTS CW 10 kHz - 250 MHz with Versions M1-M7

The Model 75A250 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 75A250, when used with an RF sweep generator, will provide a minimum of 75 watts of swept power.

The Model 75A250 includes a front panel control which permits the operator to conveniently set the amplifier's desired output level. Housed in a stylish contemporary enclosure, the Model 75A250 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 75A250 utilizes a switching power supply with a universal, autoranging input which will automatically accept from 90 to 135 VAC or from 180 to 270 VAC at 47 to 63 Hz.

## 75A250 TYPICAL POWER OUTPUT



## SPECIFICATIONS Model 75A250

POWER	OUTPUT.	CW
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Nominal	100 watts
Minimum	
Linear @ 1 dB compression	50 watts minimum
FLATNESS	$\pm 1.0 \ dB \ maximum$
FREQUENCY RESPONSE	
INPUT FOR RATED OUTPUT	
GAIN (at maximum setting)	
GAIN ADJUSTMENT (continuous range)	
INPUT IMPEDANCE	50 ohms, VSWR 1.5:1 maximum
OUTPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum
MISMATCH TOLERANCE *	
MODULATION CAPABILITY	
NOISE FIGURE (above 1.0 MHz)	16 dB typical; 6 dB available, see M2, M5, M6 & M7 below
HARMONIC DISTORTION	Minus 20 dBc maximum at 50 watts
THIRD ORDER INTERCEPT POINT	57 dBm typical
PRIMARY POWER	
RF CONNECTOR (Type)(Location)	
COOLING	Forced air (self contained fans)
* See Application Note #27	

## **MODEL CONFIGURATIONS**

MODEL NUMBER	RF CONNECTOR LOCATION	GAIN CONTROL	INSTRUMENT CASE	WEIGHT	SIZE (W x H x D)
75A250	Front Panel	Yes	Yes	15.9 kg (35.0 lb)	50.3 x 15.5 x 30.0 cm 19.8 x 6.1 x 11.80 in
75A250M1	Rear Panel	Yes	No	11.4 kg (25.0 lb)	48.3 x 13.5 x 29.3 cm 19.0 x 5.3 x 11.5 in
75A250M2*	Front Panel	No	Yes	15.9 kg (35.0 lb)	50.3 x 15.5 x 30.0 cm 19.8 x 6.1 x 11.80 in
75A250M3	Rear Panel	Yes	Yes	15.9 kg (35.0 lb)	50.3 x 15.5 x 30.0 cm 19.8 x 6.1 x 11.80 in
75A250M4	Front Panel	Yes	No	11.4 kg (25.0 lb)	48.3 x 13.5 x 29.3 cm 19.0 x 5.3 x 11.5 in
75A250M5*	Rear Panel	No	Yes	15.9 kg (35.0 lb)	50.3 x 15.5 x 30.0 cm 19.8 x 6.1 x 11.80 in
75A250M6*	Rear Panel	No	No	11.4 kg (25.0 lb)	48.3 x 13.5 x 29.3 cm 19.0 x 5.3 x 11.5 in
75A250M7*	Front Panel	No	No	11.4 kg (25.0 lb)	48.3 x 13.5 x 29.3 cm 19.0 x 5.3 x 11.5 in

<sup>\*</sup>When the Gain Control is removed, the noise figure is 6dB (typical)