

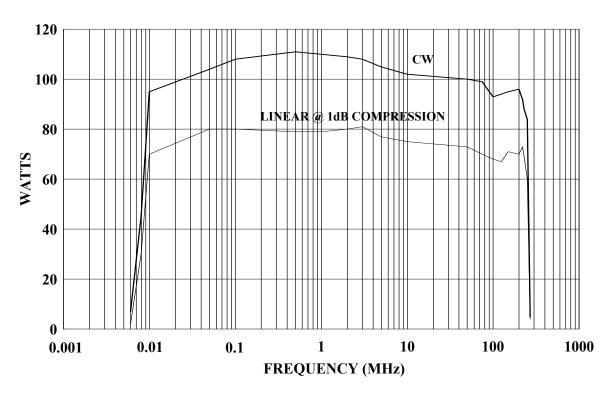
MODEL 75A250 75 WATTS CW 10 kHz - 250 MHz with Versions M1-M7

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



REV110504

SPECIFICATIONS Model 75A250

POWER	OUTPUT.	CW
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POWER OUTPUT, CW Nominal	100 watts			
Minimum	75 watts			
Linear @ 1 dB compression	50 watts minimum			
FLATNESS	± 1.0 dB maximum			
FREQUENCY RESPONSE				
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum			
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)			
d 0 / 1				

^{*} 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

^{*}When the Gain Control is removed, the noise figure is 6dB (typical)

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