

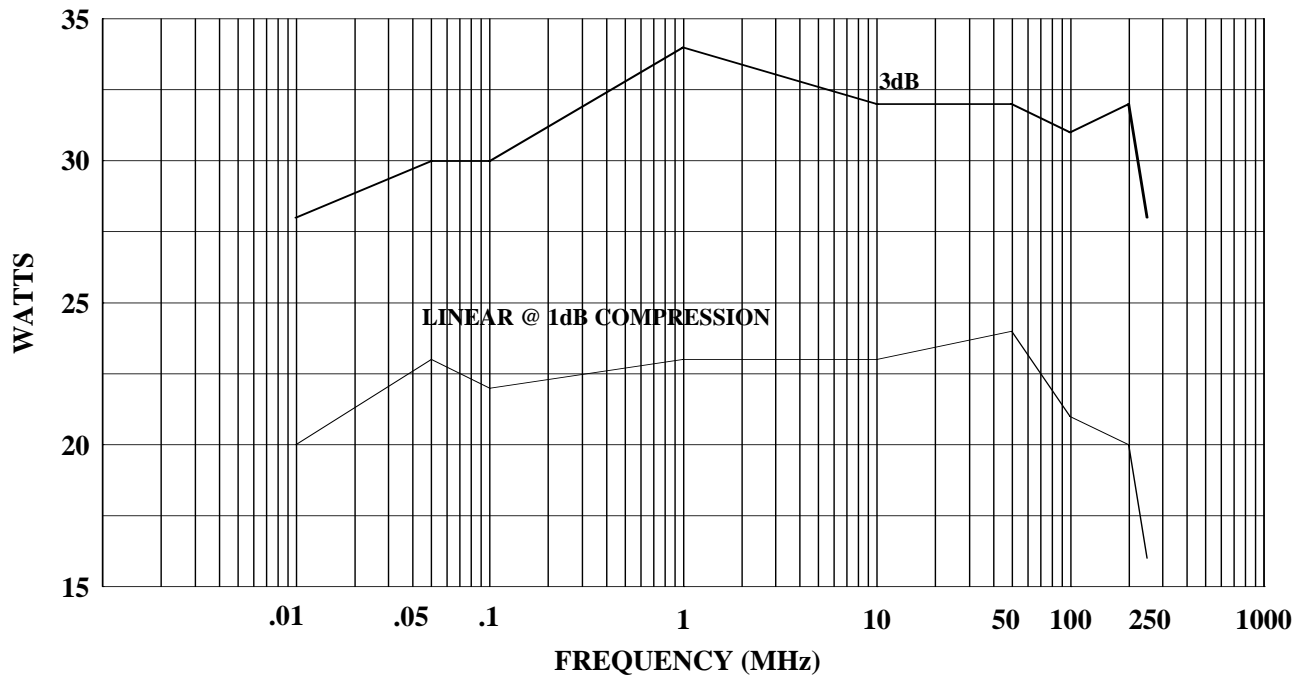
Model 25A250A
25 Watts CW
10kHz–250MHz

The Model 25A250A 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 25A250A, when used with an RF sweep generator, will provide a minimum of 25 watts of swept power.

The Model 25A250A 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 25A250A 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 25A250A utilizes a switching power supply with universal and autoranging input which will automatically accept from 90 to 135 VAC or from 180 to 270 VAC at 47 to 63 Hz.

25A250A TYPICAL POWER OUTPUT



SPECIFICATIONS

POWER OUTPUT	25 watts minimum
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
Power output @ 3dB compression	
Nominal	32 watts
Minimum	25 watts
Power output @ 1 dB compression	
Nominal	20 watts
Minimum	15 watts
FLATNESS.....	± 1.0 dB maximum
FREQUENCY RESPONSE	10 kHz - 250 MHz instantaneously
GAIN (at maximum setting)	44 dB minimum
GAIN ADJUSTMENT (continuous range).....	18 dB minimum
INPUT IMPEDANCE.....	50 ohms, VSWR 1.5:1 maximum
OUTPUT IMPEDANCE	50 ohms nominal
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).....	16 dB typical
HARMONIC DISTORTION.....	Minus 20 dBc maximum at 15 watts
THIRD ORDER INTERCEPT POINT	54 dBm typical
PRIMARY POWER	90-135/180-270 VAC 47 to 63 Hz, single phase 200 watts maximum
RF CONNECTORS	Type N female
COOLING.....	Forced air (self-contained fans)
WEIGHT	15.9 kg (35.0 lb)
SIZE (WxHxD).....	50.3 x 15.5 x 30.0 cm (19.8 x 6.1 x 11.80 in)

* See Application Note #27