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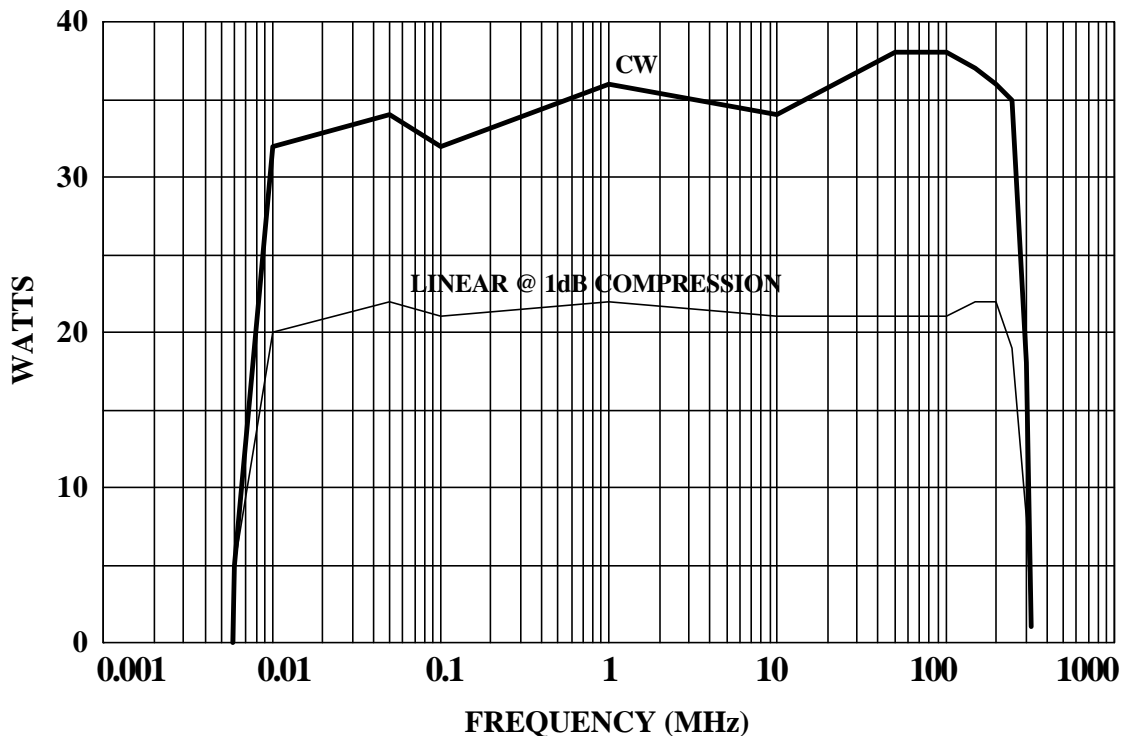
MODEL 25A250A
25 WATTS CW
10 kHz - 250 MHz

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
Model 25A250A

POWER OUTPUT, CW

Nominal35 watts
Minimum25 watts
Linear @ 1dB compression.....15 watts minimum

FLATNESS..... ± 1.0 dB maximum

FREQUENCY RESPONSE.....10 kHz - 250 MHz instantaneously

INPUT FOR RATED OUTPUT.....1.0 milliwatt maximum

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, 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 CAPABILITYWill faithfully reproduce AM, FM, or pulse modulation appearing on the input signal

NOISE FIGURE (above 1.0 MHz).....6 dB typical

HARMONIC DISTORTIONMinus 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 CONNECTORSType 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