

MODEL 25A250AM6
25 WATTS CW
1 – 300 MHz

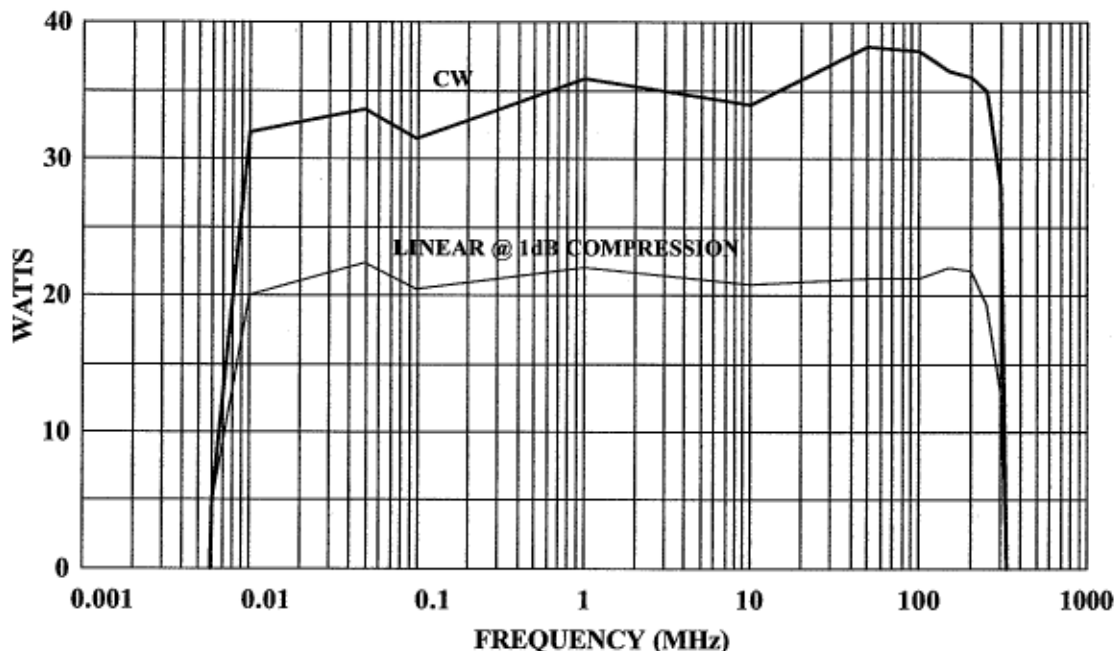
The Model 25A250AM6 amplifier is a self-contained, broadband unit designed for laboratory applications where instantaneous bandwidth, high gain and moderate power output are required. Utilization of push-pull MOSFET circuitry lowers distortion, improves stability and allows operation into any load impedance without damage. The Model 25A250AM6, when used with an RF sweep generator, will provide a minimum of 25 watts of swept power.

The Model 25A250AM6 includes a front panel control which permits the operator to conveniently set the amplifier's desired output level. Designed for rack mounting, the Model 25A250AM6 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 25A250AM6 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.

The M6 version of the 25A250A is supplied without an instrument case and exhibits an enhanced frequency response.

25A250AM6 TYPICAL POWER OUTPUT



REV061297



SPECIFICATIONS
*Model 25A250AM6***POWER OUTPUT, CW**

<i>Nominal</i>	<i>35 watts</i>
<i>Minimum</i>	<i>25 watts</i>
<i>Linear @ 1dB compression</i>	<i>15 watts minimum (1-250 MHz)</i> <i>10 watts minimum (250-300 MHz)</i>

FLATNESS.....*± 1.0 dB maximum***FREQUENCY RESPONSE**.....*1-300 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 CAPABILITY**.....*Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal***NOISE FIGURE (above 1.0 MHz)**.....*6 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**.....*10.9 kg (24.0 lb)***SIZE (WxHxD)**.....*48.3 x 13.2 x 28.7 cm*
19.0 x 5.2 x 11.3 in

* See Application Note #27

