



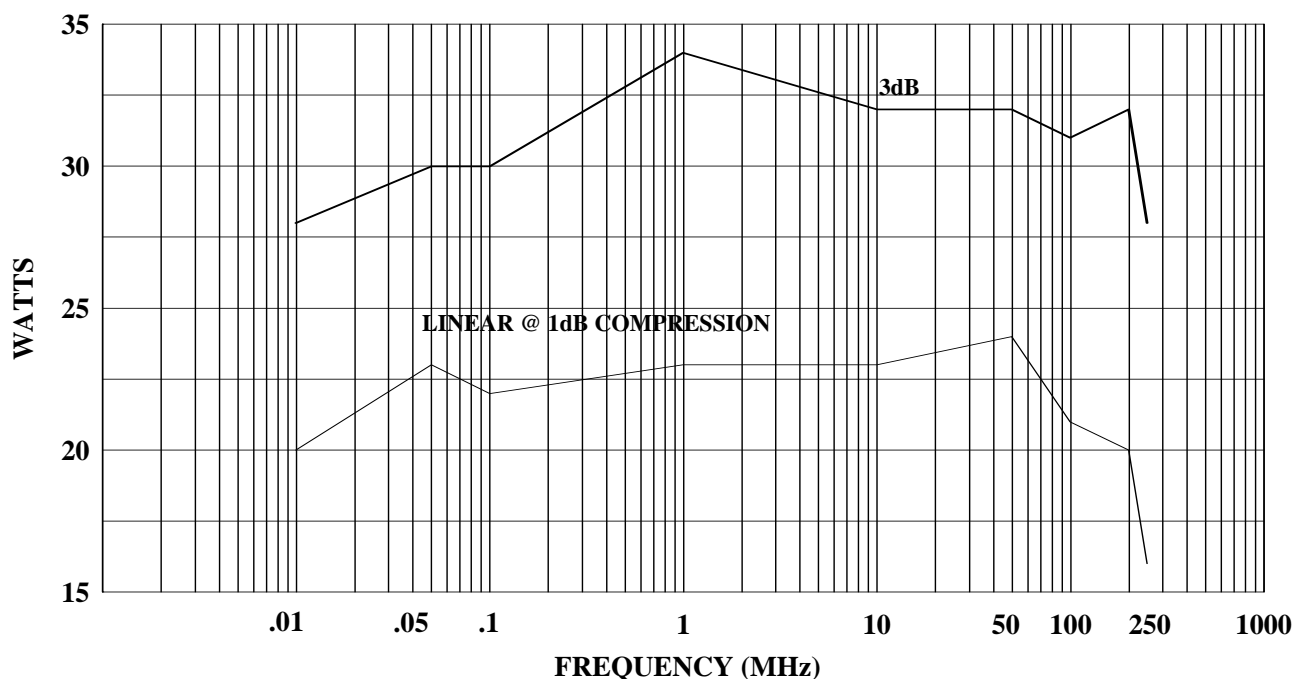
**Model 25A250A,
M1 through M7
25 Watts CW
10kHz–250MHz**

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, MODEL 25A250A

| | |
|---|---|
| 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. * See Application Note #27 |
| 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) |

MODEL CONFIGURATIONS

| Model | RF Connectors | Size | Features |
|-----------|-------------------|--|--|
| 25A250A | Type N (f), front | 50.3 x 15.5 x 30.0 cm 19.8 x 6.1 x 11.80 in | |
| 25A250AM1 | Type N (f), rear | 50.3 x 15.5 x 30.0 cm 19.8 x 6.1 x 11.80 in | |
| 25A250AM2 | Type N (f), rear | 48.3 x 13.2 x 28.7 cm 19.0 x 5.2 x 11.3 in | No instrument case |
| 25A250AM3 | Type N (f), front | 50.3 x 15.5 x 30.0 cm 19.8 x 6.1 x 11.80 in | See separate specification sheet |
| 25A250AM4 | Type N (f), rear | 48.3 x 13.2 x 28.7 cm 19.0 x 5.2 x 11.3 in | OEM, no instrument case, no gain control |
| 25A250AM5 | Type N (f), front | 50.3 x 15.5 x 30.0 cm 19.8 x 6.1 x 11.80 in | See separate specification sheet |
| 25A250AM6 | Type N (f), front | 48.3 x 13.2 x 28.7 cm 19.0 x 5.2 x 11.3 in | See separate specification sheet |
| 25A250AM7 | Type N (f), front | 48.3 x 13.2 x 28.7 cm 19.0 x 5.2 x 11.3 in | No instrument case |