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Find the *Amplifier Research 25A250AM6* at our website: ***Click HERE***

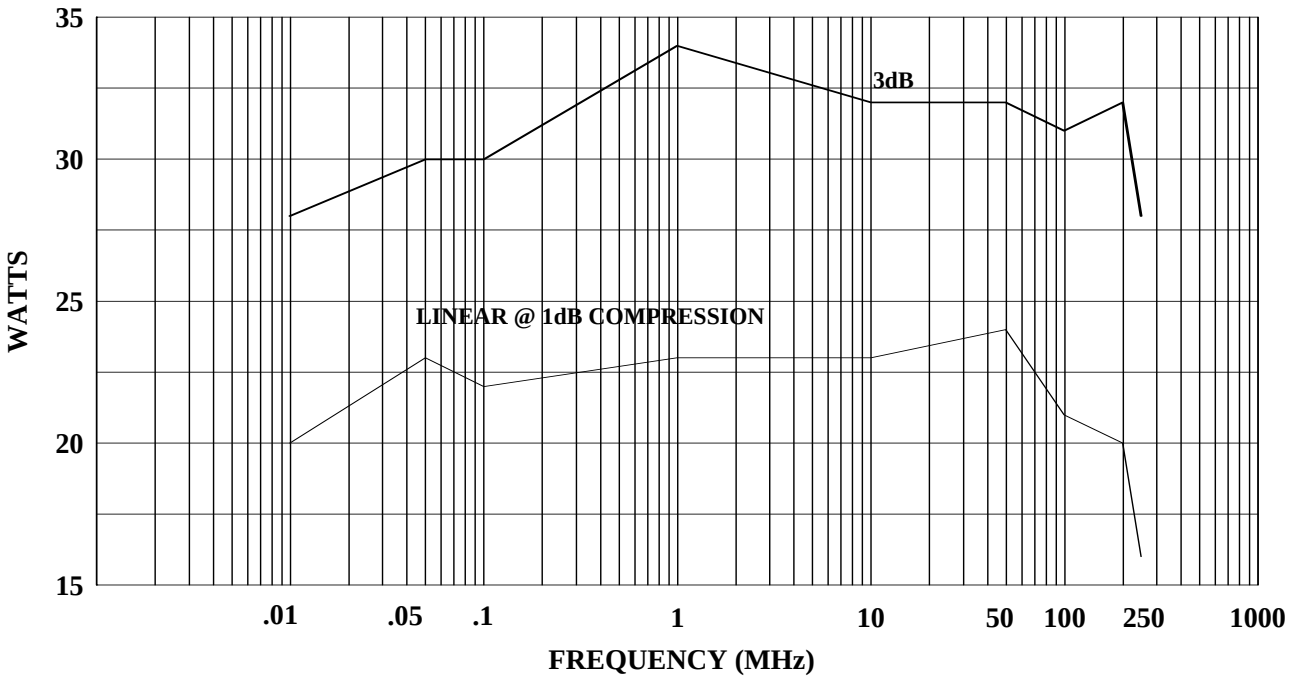
Model 25A250A,
M1 through M7
25 Watts CW
10kHz–250MHz

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



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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

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