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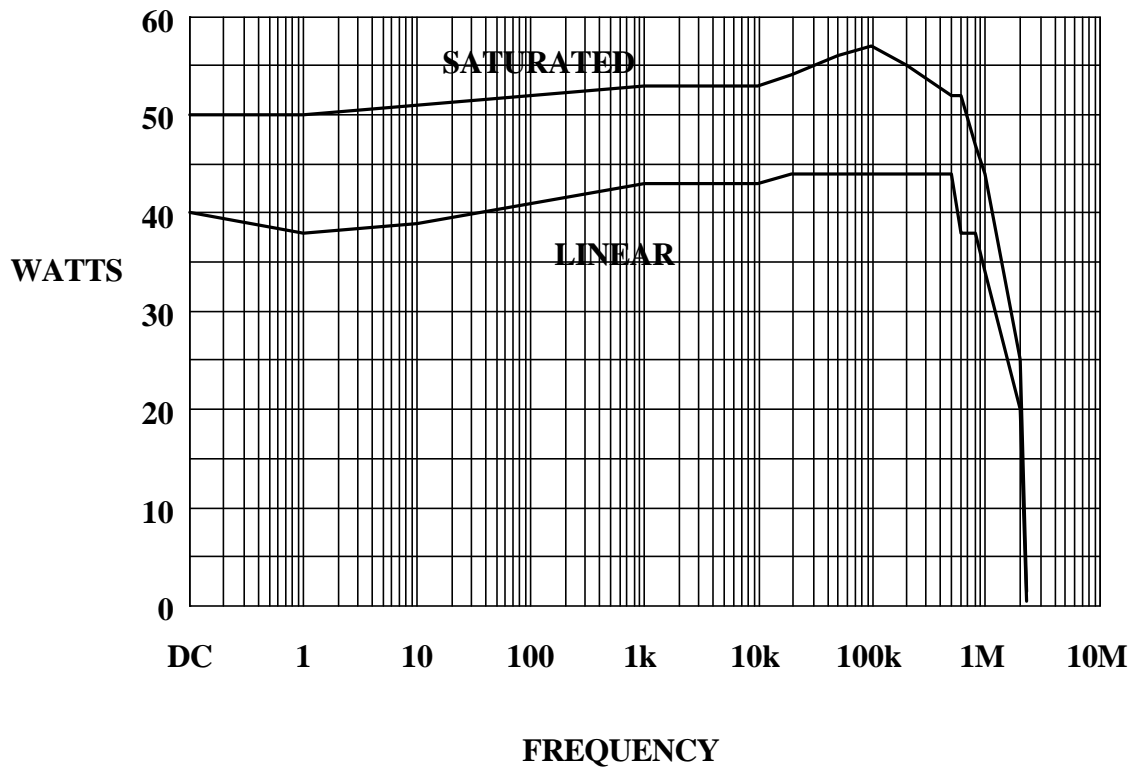
MODEL 40AD1
M1, M2, M3
40 WATTS CW
DC - 1MHz

The Model 40AD1 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 40AD1, when used with an RF sweep generator will provide a minimum of 40 watts of swept power. The Model 40AD1 is direct coupled throughout, allowing very low frequency signals to be used.

Included is a front panel gain control which permits the operator to conveniently set the desired output level. Housed in a stylish, contemporary enclosure, the Model 40AD1 provides available RF power for typical applications such as RF susceptibility testing, antenna and component testing, watt meter calibration, and use as a driver for high power amplifiers.

The Model 40AD1 amplifier uses universal input line voltage switching power supplies, thus allowing its use over a wide range of input voltages without wiring or switch position changes.

40AD1 TYPICAL POWER OUTPUT



SPECIFICATIONS
Model 40AD1

POWER OUTPUT, CW

Typical..... 50 watts
Minimum..... 40 watts
Linear @ 1dB compression 25 watts minimum

FLATNESS ± 1.5 dB max.

FREQUENCY RESPONSE..... DC - 1MHz instantaneously

INPUT FOR RATED OUTPUT 1.0 milliwatt maximum

GAIN (at maximum setting)..... 45 dB minimum

GAIN ADJUSTMENT (continuous range)..... 18 dB minimum

INPUT IMPEDANCE..... 50 ohms, VSWR 1.5:1 max.

OUTPUT IMPEDANCE..... 50 ohms, VSWR 2.0:1 max.

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

HARMONIC DISTORTION Maximum at 25 watts output, -25 dBc

THIRD ORDER INTERCEPT POINT..... 54 dBm, typical

PRIMARY POWER)..... 90 - 135 / 180 - 270 VAC 50/60Hz single phase autoranging 400 watts maximum

CONNECTORS..... See Model Configurations

Model Configuration

<i>Model Number</i>	<i>RF Input</i>	<i>RF Output</i>	<i>Weight</i>	<i>Size (WxHxD)</i>
<i>40AD1</i>	<i>Type N female on front panel</i>	<i>Type N female on front panel</i>	<i>16 kg (35 lb)</i>	<i>50.3 x 15.5 x 30.0 cm 19.8 x 6.06 x 11.8 in</i>
<i>40AD1M1</i>	<i>Type N female on rear panel</i>	<i>Type N female on rear panel</i>	<i>16 kg (35 lb)</i>	<i>50.3 x 15.5 x 30.0 cm 19.8 x 6.06 x 11.8 in</i>
<i>40AD1M2</i>	<i>Same as 40AD1 with enclosure removed for rack mounting</i>		<i>11 kg (23 lb)</i>	<i>48.3 x 12.8 x 27.2 cm 19.0 x 4.96 x 10.7 in</i>
<i>40AD1M3</i>	<i>Same as 40AD1M1 with enclosure removed for rack mounting</i>		<i>11 kg (23 lb)</i>	<i>48.3 x 12.8 x 27.2 cm 19.0 x 4.96 x 10.7 in</i>

* See Application Note #27