



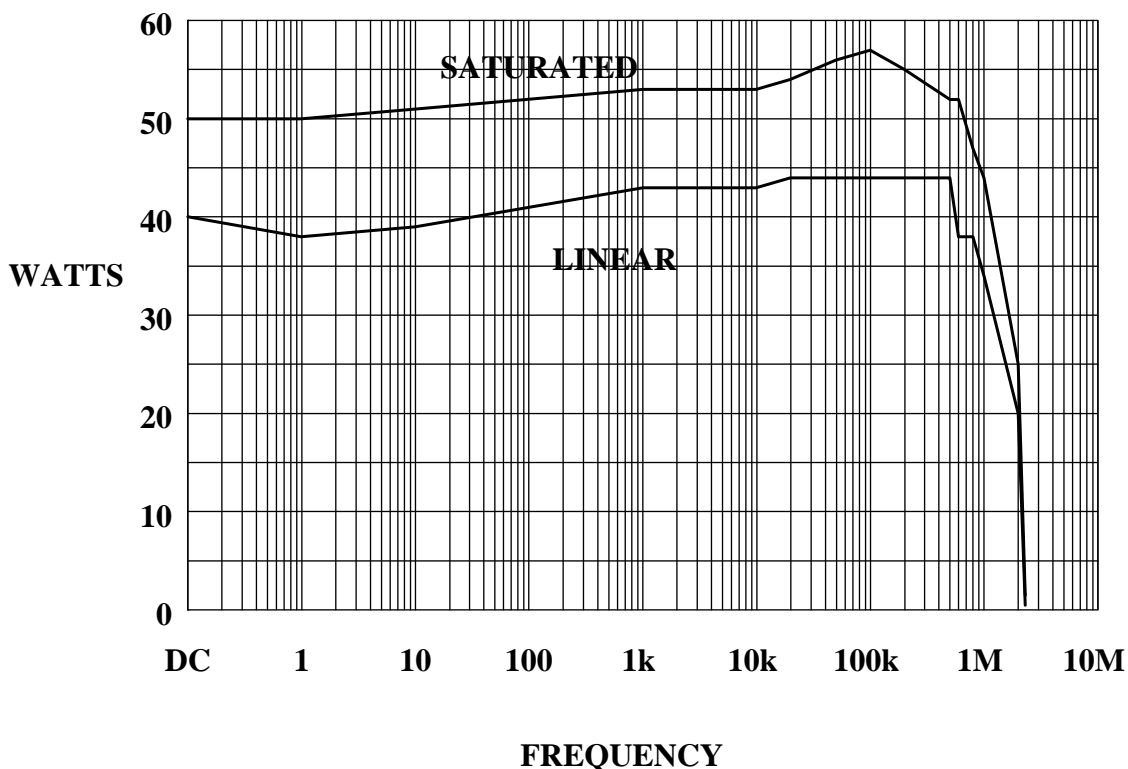
**Model 40AD1,  
M1 through M3  
40 Watts CW  
DC-1MHz**

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.  
 \* See Application Note #27

**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

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