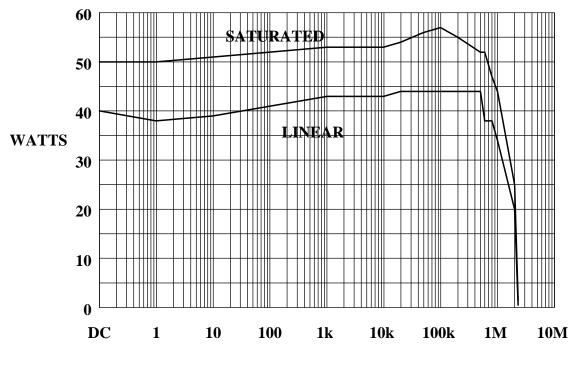


Model 40AD1, M1 through M3 40 Watts CW DC-1MHz

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

FREQUENCY

SPECIFICATIONS, MODEL 40AD1

POWER OUTPUT, CW Typical Minimum Linear @ 1dB compression	40 watts
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

