

**MODEL KAA1030**  
**50 WATTS CW**  
**500 KHz - 50 MHz**

The Model KAA1030 is a general-purpose, class "AB", wideband RF power amplifier for signals in the 500 KHz to 50 MHz frequency range. No tuning, band switching, or adjustments of any kind are required to operate this unit. Power output is in excess of 50 Watts into a 50-Ohm load. Power gain is a minimum 47 dB making the amplifier compatible with drive power levels provided by most commercially available signal generators.

Construction of this model is in a 5¼-inch high cabinet, 14½ inches deep, exclusive of handles, and 11½ inches wide, intended for bench-top use. Input and output connectors are located on the front. Forced-air cooling.

Protection against excessive heat rise of the amplifier module heatsink is by a temperature-sensing switch that interrupts the gate bias supply to the amplifier devices when activated. Operation resumes automatically when temperature has returned to normal operating temperature. The KAA1030 has built in VSWR protection.

**SPECIFICATIONS**

RATED POWER OUTPUT .....	50 Watts
INPUT FOR RATED OUTPUT .....	2.0 mW maximum
POWER OUTPUT @ 1dB COMPRESSION .....	50 Watts minimum
FLATNESS .....	± 1.5 dB maximum
FREQUENCY RESPONSE .....	500 KHz - 50 MHz instantaneously
GAIN .....	47 dB minimum
INPUT/OUTPUT IMPEDANCE .....	50 Ohm nominal
MISMATCH TOLERANCE .....	3:1
PROTECTION .....	Over-temperature, VSWR
MODULATION CAPABILITY .....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION .....	-14 dBc maximum
SPURIOUS OUTPUTS .....	-70 dBc maximum
CONTROLS .....	ON/OFF
INDICATORS .....	SYSTEM ON, TEMP FAULT, VSWR
RF CONNECTORS .....	Type N female
OPERATING TEMPERATURE .....	-10 to 40 °C
COOLING .....	Forced air (self contained fan)
PRIMARY POWER .....	95-245V, 47-63Hz, 400VA maximum
SIZE (W x H x D) .....	29.2 x 13.3 x 40.7 cm, 11½ x 5¼ x 16 in.
WEIGHT .....	9.1 kg, 20 lb.

