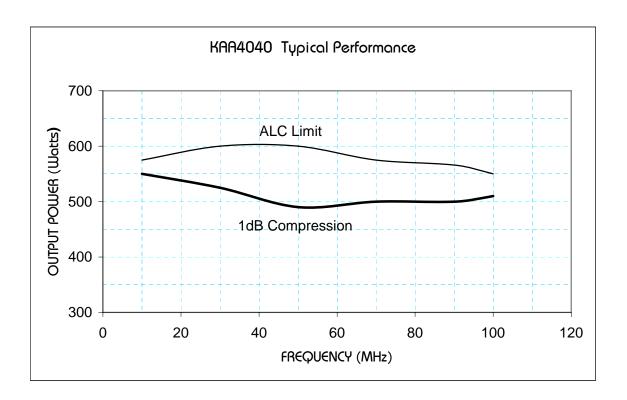


MODEL KAR4040 500 WATTS CW 10 MHz - 100 MHz

The Model KAA4040 is a Class AB wideband RF power amplifier system delivering in excess of 500 Watts CW power into a 50-Ohm load over the frequency range of 10 MHz to 100 MHz. Power gain is a minimum of 57 dB.

The system features forward and reflected power indication on a front panel-mounted, analog meter; Automatic Level Control (ALC); RF gain control; overdrive protection; full VSWR protection; input blanking, and over-temperature protection. On the basic model these features, plus remote power on/off control, are accessible for hard-wire remote operation through a 25-pin, D-subminiature connector. For a detailed description of these features refer to "SPECIAL FEATURES – KAA & KAW-SERIES SINGLE BAND RF POWER AMPLIFIERS".

The system comprises a Power Controller/Power Amplifier and a Power Supply Unit. These are intended to be mounted into a standard, 19-inch equipment rack and require $12\frac{1}{4}$ inches of panel space. The units are designed to be installed on optional telescoping slides. The system operates from $187-265\ V_{RC}$ single phase, $47-63\ Hz$ line. The system may be placed in 'stand-by' mode with the BLANKING switch, which greatly reduces energy consumption and heat generation.





SPECIFICATIONS Model KAA4040

RATED POWER OUTPUT	500 Watts
Input for rated output	1.0 mW maximum
POWER OUTPUT @ 1db compression	
FLATNESS	\pm 1.5 dB maximum unleveled, \pm 0.5 dB leveled
FREQUENCY RESPONSE	10 MHz - 100 MHz instantaneously
GAIN	57 dB minimum
Gain adjustment range	30 dB typical
Input /output impedance	50 Ohm nominal
MISMATCH TOLERANCE	infinite
PROTECTION	VSWR, over-temperature, overdrive
Modulation Capability	
HARMONIC DISTORTION	13 dBc maximum
SPURIOUS OUTPUTS	
FRONT PANEL METER	
CONTROLS	[AC LINE]ON/OFF, [RF CTRL]ON/OFF (blanking) [METER]FWD/REFL, [ALC]FAST/SLOW (Autom. Level Control) [VSWR]RESET MAN/AUTO, ALC, RF GAIN
INDICATORS	
REMOTE INTERFACE (optional)	I€€€-488.2 & RS-232
RF CONNECTORS	Input N; Output 'N'
REMOTE CONTROL	
REMOTE INTERLOCK	BNC female
Operating temperature	–10 to 50 °C
COOLING	Forced air (self contained fans)
PRIMARY POWER	
SIZE (W x H x D) Total with units stacked	
WEIGHT (Total)	

MODEL CONFIGURATIONS

MODEL NUMBER	OPTION
KAA4040	Standard
KAA4040M1	IEEE488.2/RS232

DOC # 7-98-694-006 REV A