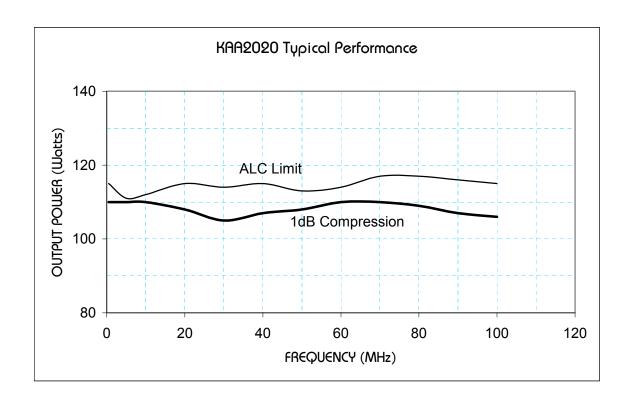


MODEL KAA2020 100 WATTS CW 500 kHz - 100 MHz

The Model KAA2020 is a Class AB wideband RF power amplifier delivering in excess of 100 Watts CW power into a 50-Ohm load over the frequency range of 500 kHz to 100 MHz. Power gain is a minimum of 50 dB. GPIB control requires the optional IEEE488.2/RS232 Interface Controller Module.

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 Model KAA2020 is a 19-inch rack-mount unit, 7 inches high and 20 inches deep. Construction is completely modular; all subassemblies are readily removable. Forced-air cooling is by a highly reliable, tube-axial fan mounted on the rear panel. The amplifier operates from 95-132 or 187-265 $V_{\rm AC}$, 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 KAA2020

RATED POWER OUTPUT	100 Watts
INPUT FOR RATED OUTPUT	1.0 mW maximum
POWER OUTPUT @ 1db compression	100 Watts minimum
FLATNESS	\pm 2.0 dB maximum unleveled, \pm 0.5 dB leveled
FREQUENCY RESPONSE	500 kHz - 100 MHz instantaneously
GAIN	50 dB minimum
Gain adjustment range	20 dB typical
INPUT IMPEDANCE	50 Ohm nominal
Output impedance	50 Ohm nominal
MISMATCH TOLERANCE	infinite
PROTECTION	VSWR, over-temperature, overdrive
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION	—10 dBc maximum
SPURIOUS OUTPUTS	–70 dBc maximum
FRONT PANEL METER	0 - 100 Watt forward power, top scale % limit SET point reflected power, bottom scale
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	System, Blanking, [meter]mode, [alc] mode, vswr, temp, remote active
REMOTE INTERFACE (optional)	IEEE-488.2 & RS-232
RF CONNECTORS	Type N female
REMOTE CONTROL	IEEE488.2: 24-pin female, RS-232: 25- pin D-Subminiature female
REMOTE INTERLOCK	BNC female
Operating temperature	–10 to 40 °C
COOLING	Forced air (self contained fans)
PRIMARY POWER	95 - 265 V_z , 47 $-$ 63 Hz, 700 VA maximum
SIZ€ (W x H x D)	$48.3 \times 17.8 \times 50.8$ cm, $19 \times 7 \times 20$ in.
WEIGHT	17.7 kg, 39 lb.

MODEL CONFIGURATIONS

MODEL NUMBER	OPTIONS
KAA2020	Standard
KAA2020M1	I€€€488.2/RS232