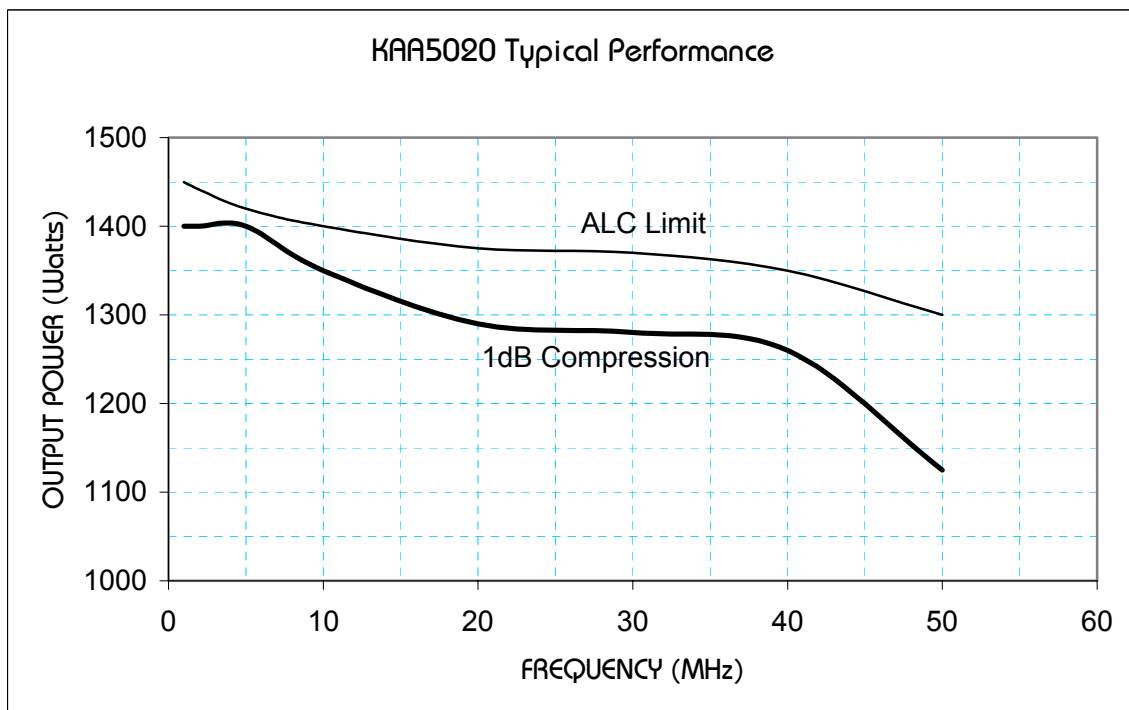


MODEL KAA5020
1000 WATTS CW
1 MHz - 50 MHz

The Model KAA5020 is a Class AB wideband RF power amplifier delivering in excess of 1000 Watts CW power into a 50-Ohm load over the frequency range of 1 MHz to 50 MHz. Power gain is a minimum of 60 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 KAA5020 is comprised of two 19-inch rack-mount units, 14 inches high and 28 inches deep; total. Construction is completely modular; all subassemblies are removable. Forced-air cooling is by highly reliable impeller and tube-axial fans. The amplifier operates from 187-265 V_{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.



DOC # 7-98-838-002
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SPECIFICATIONS
Model KAA5020

RATED POWER OUTPUT	1000 Watts
INPUT FOR RATED OUTPUT	1.0 mW maximum
POWER OUTPUT @ 1dB COMPRESSION	1000 Watts minimum
FLATNESS	± 1.5 dB maximum unleveled, ± 0.5 dB leveled
FREQUENCY RESPONSE	1 MHz - 50 MHz instantaneously
GAIN	60 dB minimum
GAIN ADJUSTMENT RANGE.....	30 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	-13 dBc maximum
SPURIOUS OUTPUTS.....	-70 dBc maximum
FRONT PANEL METER	0 - 1000 Watt forward power, top scale % limit SET point reflected power, bottom scale
CONTROLS.....	[AC LINE]ON/OFF, [RF CTRL]ON/OFF (blinking) [METER]FLWD/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	187 - 265 V _r , 47 - 63Hz, single-phase, 2.5 kVA maximum
SIZE (W x H x D).....	19 x 14 x 28 in.
WEIGHT (approx.).....	66 kg, 145 lb.

MODEL CONFIGURATIONS

MODEL NUMBER	OPTION
KAA5020	Standard
KAA5020M1	IEEE488.2/RS232