



**MODEL KAA1020
25WATTS CW
10 kHz - 230 MHz**

The Model KAA1020 is a general-purpose, wideband RF power amplifier for signals in the 10 kHz to 230 MHz frequency range. No tuning, band switching, or adjustments of any kind are required to operate this unit. Power output is in excess of 25 Watts into a 50-Ohm load. Power gain is 43 dB typical making the amplifier compatible with drive power levels provided by most commercially available signal generators.

The construction of these is in a 5¼ or 7-inch high cabinet, 14½ inches deep, exclusive of handles, and 11½ inches wide. They are intended for bench-top use but may be supplied with a rack mounting kit installed. Input and output connectors are N-type female and are located on the front. Forced-air cooling is by a highly reliable tube-axial fan mounted at the rear.

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.

SPECIFICATIONS

RATED POWER OUTPUT	25 Watts
INPUT FOR RATED OUTPUT	2.0 mW maximum
FLATNESS	± 1.5 dB typical unleveled
FREQUENCY RESPONSE	10 kHz - 230 MHz instantaneously
GAIN	43 dB typical
INPUT IMPEDANCE.....	50 Ohm nominal
OUTPUT IMPEDANCE.....	50 Ohm nominal
MISMATCH TOLERANCE	3:1
PROTECTION	Over-temperature
MODULATION CAPABILITY	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION.....	-20 dBc maximum
SPURIOUS OUTPUTS.....	-70 dBc maximum
CONTROLS	ON/OFF
INDICATORS.....	SYSTEM ON, TEMP FAULT
RF CONNECTORS	Type N female

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OPERATING TEMPERATURE –10 to 40 °C
COOLING Forced air (self-contained fan)
PRIMARY POWER 95-264 VAC, 47 - 63Hz, 250 VA maximum
SIZE (W x H x D) 29.2 x 13.3 x 40.7 cm, 11½ x 5¼ x 16 in.
WEIGHT 7.7 kg, 17 lb.

MODEL CONFIGURATIONS

MODEL NUMBER	RACK MOUNTING KIT INCLUDED
KAA1020	No
KAA1020M1	Yes

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