**MODEL KAW2020**

**100 WATTS CW**

**200 MHz - 500 MHz**

The Model KAW2020 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 200 MHz to 500 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 KAW2020 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 VAC, 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.

![KA2020 Typical Performance](image-url)
**SPECIFICATIONS**

Model KAW2020

**RATED POWER OUTPUT** ............................................................. 100 Watts

**INPUT FOR RATED OUTPUT** .................................................. 1.0 mW maximum

**POWER OUTPUT @ 1dB COMPRESSION** ............................... 100 Watts minimum

**FLATNESS** ........................................................................... ± 2.0 dB maximum unleveled, ± 0.5 dB leveled

**FREQUENCY RESPONSE** ....................................................... 200 MHz - 500 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** ..................................................... –25 dBc maximum -35 dBc typical

**SPURIOUS OUTPUTS** .............................................................. –70 dBc maximum

**FRONT PANEL METER** .......................................................... 0 - 100 Watt forward power, top scale

% limit SET point reflected power, bottom scale


**TURN-ON TIME (Model M2 only)** ........................................ 5µs

**TURN-OFF TIME (Model M2 only)** ....................................... 3µs

**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 ℃

**COOLING** .......................................................................... Forced air (self contained fans)

**PRIMARY POWER** .............................................................. 95 - 265 VAC, 47 - 63Hz, single-phase, 400 VA maximum

**SIZE (W x H x D)** ................................................................. 48.3 x 17.8 x 50.8 cm, 19 x 7 x 20 in.

**WEIGHT** ............................................................................ 14.5 kg, 32 lb.

**MODEL CONFIGURATIONS**

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