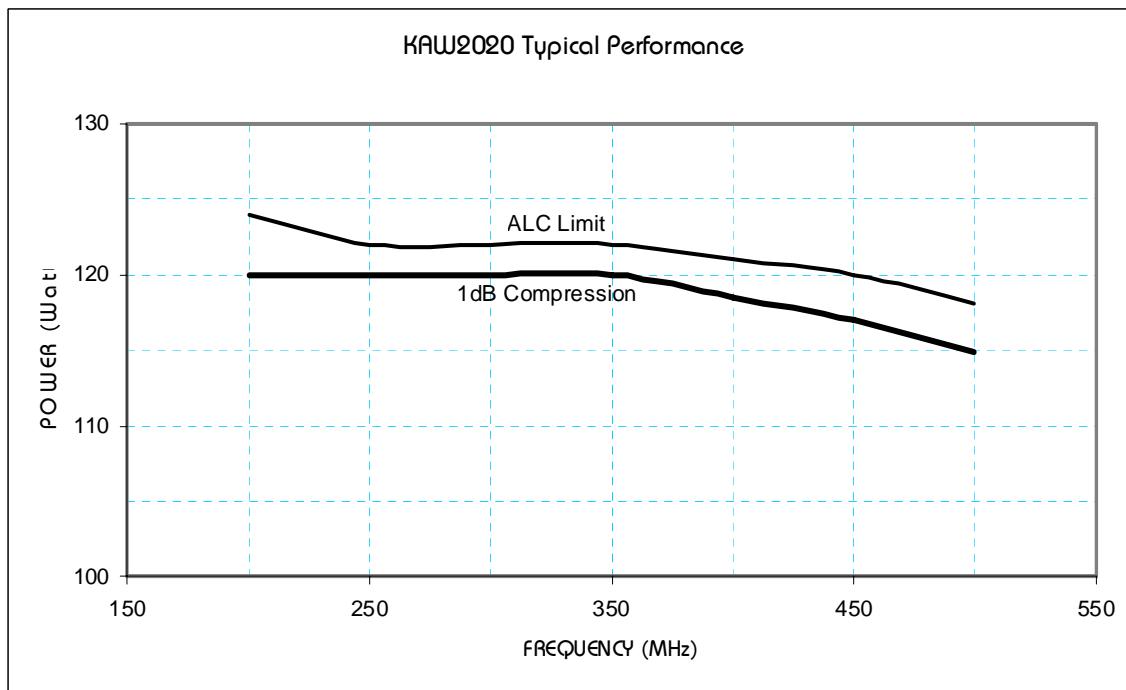


MODEL KAW2020
100 WATTS CW
200 MHz - 500 MHz

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 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.



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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 -20 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
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
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 °C
COOLING Forced air (self contained fans)
PRIMARY POWER 95 - 265 V_{AC}, 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

MODEL NUMBER	CONFIGURATION
KAW2020	Standard
KAW2020M1	IEEE 488.2/RS232 Control
KAW2020M2	W/Gating Circuitry