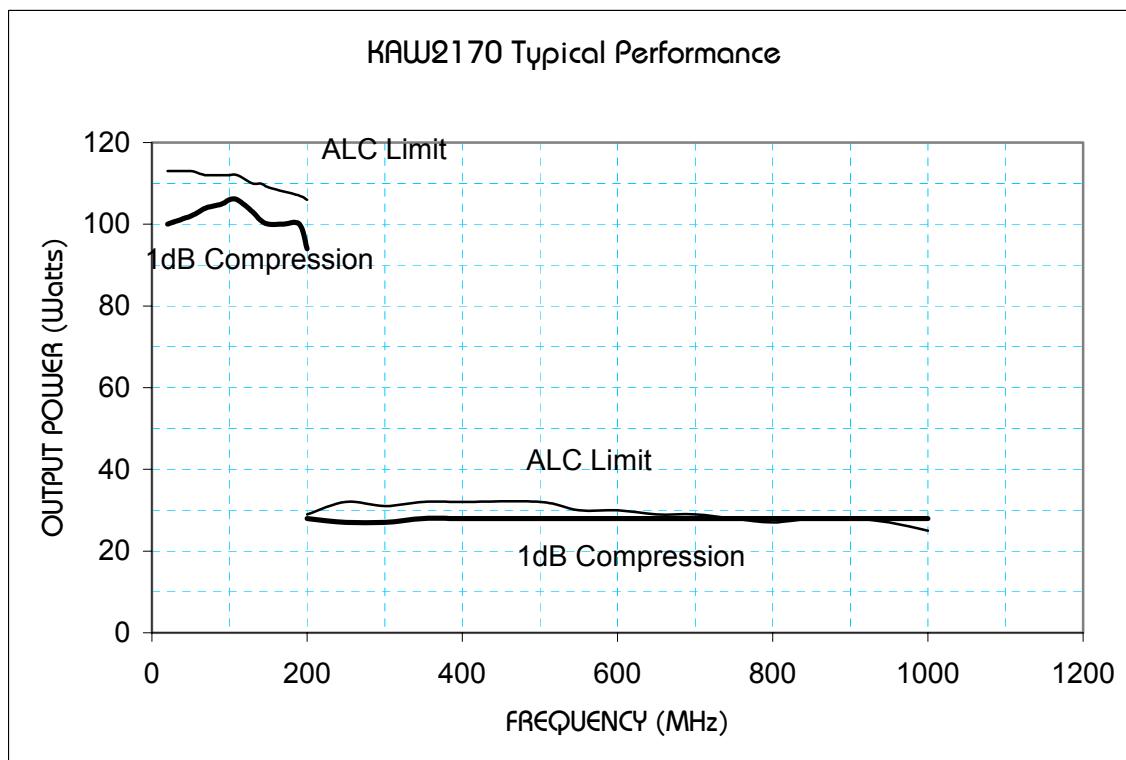


MODEL KAW2170
100/25 WATTS CW
20 MHz – 200/200 – 1000 MHz

The Model KAW2170 is a Class AB/A wideband RF power amplifier delivering in excess of 100 and 25 Watts CW power respectively into a 50-Ohm load for the frequency ranges 20 MHz to 200 MHz and 200 MHz to 1000 MHz. Power gain is a minimum of 45 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 – 2-BAND RF POWER AMPLIFIERS".

The Model KAW2170 is a 19-inch rack-mount unit, 7 inches high and 18 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.





SPECIFICATIONS
Model KAW2170

RATED POWER OUTPUT	Band 1: 100 Watts, Band 2: 25 Watts
INPUT FOR RATED OUTPUT	1.0 mW maximum
POWER OUTPUT @ 1dB COMPRESSION.....	Band 1: 100 Watts, Band 2: 25 Watts, minimum
FLATNESS	± 2.0 dB maximum unleveled, ± 0.5 dB leveled
FREQUENCY RESPONSE.....	20 MHz - 1000 MHz (coaxially switched) Band 1: 20 MHz to 200 MHz Band 2: 200 MHz to 1000 MHz
GAIN	45 dB minimum
GAIN ADJUSTMENT RANGE.....	25 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
SPURIOUS OUTPUTS.....	-70 dBc maximum
FRONT PANEL METER	0 - 100 Watt forward power, band 1, top scale 0 - 25 Watt forward power, band 2, bottom scale
CONTROLS.....	[AC LINE]ON/OFF, [RF CTRL]ON/OFF (blanking) [RF BAND]HIGH/LOW, [ALC]FAST/SLOW (Autom. Level Control) [VSWR]RESET MAN/AUTO, ALC, RF GAIN
INDICATORS	SYSTEM, BLANKING, HIGH band, LOW band, 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, 47 - 63Hz, single-phase, 425 VA maximum
SIZE (W x H x D)	48.3 x 17.8 x 45.7 cm, 19 x 7 x 18 in.
WEIGHT.....	14.1 kg, 31 lb.

MODEL CONFIGURATIONS

MODEL NUMBER	OPTION
KAW2170	Standard
KAW2170M1	IEEE488.2/RS232