



**MODEL KAW1080
25 WATTS CW
10 kHz - 1000 MHz**

The Model KAW1080 is a Class A wideband RF power amplifier delivering in excess of 25 Watts CW power into a 50-Ohm load over the frequency range of 10 kHz 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 KAW1080 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

RATED POWER OUTPUT	25 Watts
INPUT FOR RATED OUTPUT	1.0 mW maximum
POWER OUTPUT @ 1dB COMPRESSION	25 Watts minimum
FLATNESS	± 2.0 dB maximum unleveled, ± 0.5 dB leveled
FREQUENCY RESPONSE	10 kHz - 1000 MHz (coaxially switched) Band 1: 10 kHz 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



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FRONT PANEL METER.....	0 - 25 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 _{AC} , 47 - 63Hz, single-phase, 550 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
KAW1080	Standard
KAW1080M1	IEEE488.2/RS232

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DOC-00000300 REV A - 2020-07-13

Previously 7-98-425-001