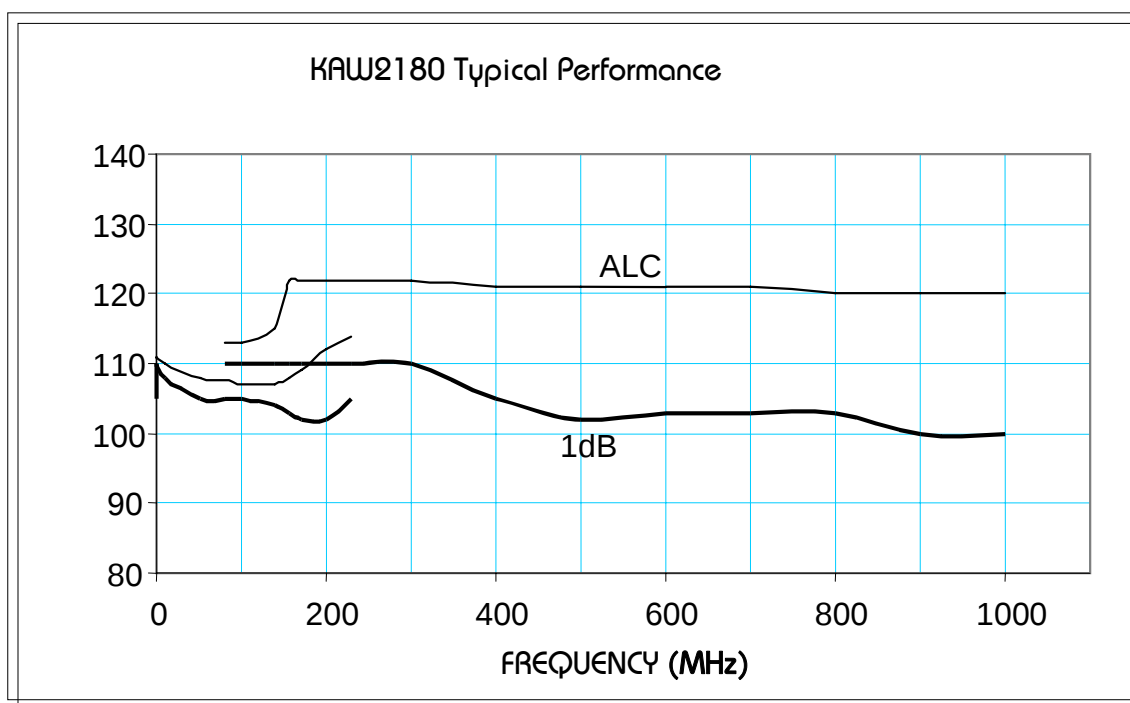


MODEL KAW2180
100 WATTS CW
10 kHz - 1000 MHz

The Model KAW2180 is a Class A wideband RF power amplifier delivering in excess of 100 Watts CW power into a 50-Ohm load over the frequency range of 10 kHz to 1000 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 – 2-BAND RF POWER AMPLIFIERS".

The Model KAW2180 is a 19-inch rack-mount unit, 8¾ inches high and 26½ 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 KAW2180

RATED POWER OUTPUT	100 Watts
INPUT FOR RATED OUTPUT	1.0 mW maximum
FLATNESS	± 2.5 dB maximum unleveled, ± 0.5 dB leveled
FREQUENCY RESPONSE.....	10 kHz - 1000 MHz (coaxially switched) Band 1: 10 kHz to 230 MHz Band 2: 80 MHz to 1000 MHz
GAIN	50 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	Band 1: -40 dBc average, -20 dBc maximum Band 2: -41 dBc average, -20 dBc maximum
SPURIOUS OUTPUTS.....	-70 dBc maximum
FRONT PANEL METER	0 - 100 Watt forward power, band 1, top scale 0 - 100 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 _r , 47 - 63Hz, single-phase, 1350 VA maximum
SIZE (W x H x D).....	48.3 x 17.8 x 45.7 cm, 19 x 8¾ x 26½ in.
WEIGHT.....	34.1 kg, 75 lb.

MODEL CONFIGURATIONS

MODEL NUMBER	OPTION
KAW2180	Standard
KAW2180M1	IEEE488.2/RS232

DOC # 7-98-840-001
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