



modular rf

**MODEL KAW5030
800 WATTS PEAK
200 WATTS AVERAGE/FM
100-400 MHz**

The Model is a Class AB wideband RF power amplifier system delivering up to 800 Watts PEP power into a 50-Ohm load over the frequency range of 100 MHz to 400 MHz.

The system features forward and reflected power indication on a front panel-mounted, color LCD display; Automatic Level Control (ALC); full VSWR protection; input blanking, FETs current imbalance protection and over-temperature protection. All front panel controls and indicators accessible thru remote DB-25.

Single 3RU unit mounts into a standard, 19-inch equipment rack. The units are designed to be installed on optional telescoping slides. The system operates from single phase 220-V_{AC}, 50 Hz.

GENERAL SPECIFICATIONS

POWER OUTPUT	800 Watts PEP 200 Watts Average/FM
FREQUENCY RANGE	100 MHz – 400 MHz [100-163 MHz band and 225-400 MHz band]
INPUT FOR RATED OUTPUT	30W Avg. +80% AM modulation
FLATNESS	±2 dB [±1 dB in both sub bands]
INPUT/OUTPUT IMPEDANCE	50 Ohm nominal
T/R SWITCHOVER TIME	25ms max
BAND FILTER SWITCHOVER TIME	25ms max
MISMATCH TOLERANCE	Infinite, VSWR fold back begins at 2.5:1
PROTECTION	Over-temperature @ 85°C on heatsink, VSWR, final FETs current imbalance
MODULATION CAPABILITY	Will faithfully reproduce AM, FM, appearing on the input signal up to the 800W PEP limit
HARMONIC DISTORTION	-70 dBc minimum
SPURIOUS OUTPUTS	-60 dBc minimum @ 800W PEP output
FRONT PANEL INDICATORS	Forward and Reflected powers are indicated in Percent (%) of Rated Output Power, approximated as a digital bar-graph display.
AM DISTORTION	<10% output distortion @ 80% DOM [input signals must have <4% residual AM distortion]
PRIMARY POWER	Nominal 220-Vac, 50 Hz, single phase, 1500W IEC Appliance inlet, fuse holder 2-pole, line switch 2-pole IEC cord with retainer
SIZE (HxWxD)	5.25 x 19.00 x 26.5 inches
WEIGHT	70 pounds
COOLING	Forced Air by internal fans with rear exhaust
RF CONNECTORS	Type N female (Rear Panel)
OPERATING TEMPERATURE	-10 to 40°C

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