



**MODEL KAW2020M16  
100 WATTS CW  
220 MHz - 245 MHz**

The Model KAW2020M16 is a Class AB wideband RF power amplifier delivering in excess of 100 Watts into a 50-Ohm load over the frequency range of 220 MHz to 245 MHz.

The system features forward and reflected power indication on a front panel-mounted analog meter; over-drive protection; full VSWR protection, over-temperature protection, over-voltage, and over-current.

System is CW rated with fast keying option.

The Model KAW2020M16 is a 19-inch rack-mount unit, 3.5 inches high and 20 inches deep. Construction is completely modular; all subassemblies are readily removable. The amplifier operates from 100-240 V<sub>AC</sub>, 47-63 Hz line.

**SPECIFICATIONS**

RATED POWER OUTPUT .....	100 W @ <1 dB compression
FREQUENCY RESPONSE .....	220 MHz - 245 MHz
GAIN/FLATNESS @ HALF POWER.....	56.5 dB ± 1 dB
HARMONIC DISTORTION.....	-30 dBc average [-24 dBc maximum]
PROTECTION .....	VSWR, over-temperature, over-drive, over-voltage, over-current
SPURIOUS .....	-70 dBc max
VSWR PROTECTION DELAY .....	600 msec - 2 sec
VSWR TOLERANCE .....	6:1
OPERATING TEMPERATURE .....	-10/+60 °C
KEYING/GATING TIME.....	200-300 µSec
ON/OFF RATIO .....	-90dbc minimum
INDICATORS.....	SYSTEM ON, METER FORWARD/REFLECT, FAULTS LED: OVERDRIVE, OVERTEMP, VSWR, PSU FAILURE
RF CONNECTORS .....	Type N female (rear panel)
COOLING .....	2-speed fans
POWER (AC Power).....	100-240 V / 300 VA max
SIZE (H x W x D) .....	3.5" x 19" x 20"
WEIGHT .....	20 lb



### DB-9 Control Pinout & Functions

Pin 1-5		Ground
Pin 8	Keying	0.1V-0.4V (LOGIC LOW) or ground; to activate the amplifier system
		2.6V-5V (LOGIC HIGH) or open; to gate off the amplifier system
Pin 9	Fault Line	> 5V (LOGIC HIGH) indicates a fault condition
		<0.5V (LOGIC LOW) indicated a normal condition
Pin 6 & 7		Not Connected

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