



**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. Power gain is a minimum of 50 dB minimum.

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 less than 100nsec on/off time.

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 .....	100w @ <1dB compression
FREQUENCY RESPONSE .....	220 MHz - 245 MHz
GAIN .....	50 dB minimum
FLATNESS .....	±0.5 dB maximum
INPUT FOR RATED OUTPUT .....	0 dB maximum
HARMONIC DISTORTION .....	-30 dBc average [-25 dBc maximum]
BROADBAND NOISE .....	-114 dBm/Hz maximum
PROTECTION .....	VSWR, over-temperature, over-drive, over-voltage, over-current
VSWR TOLERANCE .....	Rated power into 2:1
OPERATING TEMPERATURE .....	-10/+60 °C
KEYING/GATING .....	On/Off time 1 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).....	100-240V/300W 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-0.5V (LOGIC LOW) or ground to activate the amplifier system
		3V-5V (LOGIC HIGH) or open to gate off the amplifier system
Pin 9	Fault Line	>4V (LOGIC HIGH) indicates a fault condition
		<0.5v (LOGIC LOW) indicated a normal condition
Pin 6 & 7		Not Connected

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