

**MODEL KAW1040**  
**20 WATTS CW**  
**1 MHz - 512 MHz**

The Model KAW1040 is a general-purpose, wideband RF power amplifier for signals in the 1 MHz to 512 MHz frequency range. No tuning, band switching, or adjustments of any kind are required to operate this unit. Power output is in excess of 20 Watts into a 50-Ohm load. Power gain is a minimum 43 dB making the amplifier compatible with drive power levels provided by most commercially available signal generators.

Construction of this model is in a 5¼-inch high cabinet, 14½ inches deep, exclusive of handles, and 11½ inches wide. It is intended for bench-top use, but may be supplied with 19-in rack mounting kit installed. Input and output connectors are N-type female and are located on the front. Forced-air cooling is by a highly reliable, tube-axial fan mounted at the rear.

Protection against excessive heat rise of the amplifier module heatsink is by a temperature-sensing switch that interrupts the gate bias supply to the amplifier devices when activated. Operation resumes automatically when temperature has returned to normal operating temperature.

**SPECIFICATIONS**

RATED POWER OUTPUT .....	20 Watts
INPUT FOR RATED OUTPUT .....	2.0 mW maximum
FLATNESS .....	± 2.0 dB maximum unlevelled
FREQUENCY RESPONSE.....	1 MHz - 512 MHz instantaneously
GAIN .....	43 dB minimum
INPUT IMPEDANCE.....	50 Ohm nominal
OUTPUT IMPEDANCE .....	50 Ohm nominal
MISMATCH TOLERANCE .....	3:1
PROTECTION .....	Over-temperature
MODULATION CAPABILITY.....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION .....	-18 dBc maximum
SPURIOUS OUTPUTS.....	-70 dBc maximum
CONTROLS.....	ON/OFF
INDICATORS .....	SYSTEM ON, TEMP FAULT

RF CONNECTORS ..... Type N female  
 OPERATING TEMPERATURE ..... -10 to 40 °C  
 COOLING..... Forced air (self contained fan)  
 PRIMARY POWER ..... 85-264 V<sub>r</sub>, 47 - 63Hz, 120 VA maximum  
 SIZE (W x H x D)..... 29.2 x 13.3 x 40.7 cm, 11½ x 5¼ x 16 in.  
 WEIGHT..... 7.7 kg, 17 lb.

**MODEL CONFIGURATIONS**

MODEL NUMBER	RACK MOUNTING KIT INCLUDED
KAW1040 (520FC-CE)	No
KAW1040M1 (520FC-CE)	Yes

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