

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_r, 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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