

MODEL KAA1075

75 WATTS CW

5 - 30 MHz

The Model KAA1075 is a general-purpose, wideband RF power amplifier for signals in the 5 to 30 MHz frequency range. No tuning, band switching, or adjustments of any kind are required to operate this unit. Power output is in excess of 75 Watts into a 50-Ohm load. Power gain is a minimum 50 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, intended for bench-top use. Input and output connectors are located on the front. Forced-air cooling.

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. The KAA1075 has built in VSWR protection

SPECIFICATIONS

RATED POWER OUTPUT	75 Watts
INPUT FOR RATED OUTPUT	2.0 mW maximum
POWER OUTPUT @ 1dB COMPRESSION	75 Watts minimum
FLATNESS	± 1.0 dB maximum (1 dB in any 500 KHz sub-band)
FREQUENCY RESPONSE	5 MHz - 30 MHz instantaneously
GAIN	50 dB minimum
INPUT/OUTPUT IMPEDANCE	50 Ohm nominal
MISMATCH TOLERANCE	Will operate without damage or oscillation with any magnitude and phase of source and load impedance including short circuit protection
PROTECTION	Over-temperature
MODULATION CAPABILITY	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION	-20 dBc maximum
SPURIOUS OUTPUTS	-70 dBc maximum
3- ORDER OUTPUT INTERCEPT	60 dBm
CONTROLS	ON/OFF
INDICATORS	SYSTEM ON, TEMP FAULT, VSWR
RF CONNECTORS	Type N female
OPERATING TEMPERATURE	-10 to 40 °C
COOLING	Forced air (self contained fan)
PRIMARY POWER	95-245V, 47-63Hz, 400VA maximum

SIZE (W x H x D) 29.2 x 13.3 x 40.7 cm, 11½ x 5¼ x 16 in.

WEIGHT 9.1 kg, 20 lb.

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