



MODEL KMA1040
50 WATTS CW
200 kHz - 50 MHz

The Model KMA1040 is an RF power amplifier module for OEM applications or integration into a user system. The module comprises a printed wiring assembly housed in a machined aluminum enclosure with feed-through capacitive terminals for connection to the DC power source. Cooling requirements defined by the data provided below and protection of the output devices against output mismatch are the responsibility of the user.

SPECIFICATIONS

RATED POWER OUTPUT	50 Watts
INPUT FOR RATED OUTPUT	1.0 mW maximum
POWER OUTPUT @ 1db COMPRESSION.....	60 Watts minimum
CLASS OF OPERATION	Class A
FLATNESS.....	± 2 dB maximum
FREQUENCY RESPONSE	200 kHz - 50 MHz
GAIN	48 dB minimum
INPUT IMPEDANCE	50 Ohm nominal
OUTPUT IMPEDANCE	50 Ohm nominal
MISMATCH TOLERANCE	4:1 maximum
MODULATION CAPABILITY.....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
NOISE FIGURE (above 1.0 MHz)	10 dB typical
HARMONIC DISTORTION.....	- 23 dBc maximum
PRIMARY POWER	28 V _{DC} @ 10 A (Solder terminals)
RF CONNECTORS	N female
COOLING.....	Maximum allowable enclosure temperature 60 °C

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MODEL CONFIGURATIONS

MODEL NUMBER	CONFIGURATION	HEATSINK SPECS	WEIGHT	SIZE (WxHxD)
KMA1040	NO HEATSINK	-	1.7 kg (3.8 lb.)	11.68 x 3.81 x 26.67 cm 4.6 x 1.5 x 10.5 in.
KMA1040M 1	HEATSINK	.95 kg, 38.2 sq.in/1", 1.7 °C/W/3"	2.65 kg (5.9 lb.)	11.68 x7.37 x 26.67 cm 4.6 x 2.90 x 10.5 in
KMA1040M 2	HEATSINK & SMA CONNECTORS	.95 kg, 38.2 sq.in/1", 1.7 °C/W/3"	2.65 kg (5.9 lb.)	11.68 x7.37 x 26.67 cm 4.6 x 2.90 x 10.5 in
KMA1040M 3	HEATSINK & PIN DIODE	.95 kg, 38.2 sq.in/1", 1.7 °C/W/3"	2.65 kg (5.9 lb.)	11.68 x7.37 x 26.67 cm 4.6 x 2.90 x 10.5 in

