



**modular rf**

**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 <sub>DC</sub> @ 10 A (Solder terminals)
RF CONNECTORS .....	N female
COOLING.....	Maximum allowable enclosure temperature 60 °C

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**ar modular rf**

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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.
KMA1040M1	HEATSINK	.95 kg, 38.2 sq.in/1", 1.7 °C/W/3"	2.65 kg (5.9 lb.)	11.68 x 7.37 x 26.67 cm 4.6 x 2.90 x 10.5 in
KMA1040M2	HEATSINK & SMA CONNECTORS	.95 kg, 38.2 sq.in/1", 1.7 °C/W/3"	2.65 kg (5.9 lb.)	11.68 x 7.37 x 26.67 cm 4.6 x 2.90 x 10.5 in
KMA1040M3	HEATSINK & PIN DIODE	.95 kg, 38.2 sq.in/1", 1.7 °C/W/3"	2.65 kg (5.9 lb.)	11.68 x 7.37 x 26.67 cm 4.6 x 2.90 x 10.5 in

