



**MODEL KMA2040**  
**200 WATTS CW/PULSE**  
**500 kHz - 40 MHz**

The Model KMA2040 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. **OPTIONAL:** (FOR -003 ONLY) Dual Blanking Kit PN: 4-93-001-001. This provides gate bias control from TTL input.

**SPECIFICATIONS**

RATED POWER OUTPUT .....	200 Watts
INPUT FOR RATED OUTPUT .....	2.0 mW maximum
POWER OUTPUT @ 1db COMPRESSION.....	200 Watts minimum (-003 CW/Pulse)
CLASS OF OPERATION .....	Class AB
FLATNESS.....	± 1.5 dB maximum
FREQUENCY RESPONSE .....	500 KHz - 40 MHz
.....	500 KHz – 1 MHz (20% Duty Cycle)
.....	1 MHz – 40 MHz (100% Duty Cycle)
GAIN .....	50 dB minimum
INPUT IMPEDANCE .....	50 Ohm nominal
OUTPUT IMPEDANCE .....	50 Ohm nominal
MISMATCH TOLERANCE .....	2:1 maximum
MODULATION CAPABILITY.....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
NOISE FIGURE .....	12 dB typical
HARMONIC DISTORTION.....	- 11 dBc maximum
PRIMARY POWER .....	28 V <sub>DC</sub> @ 15 A (Solder terminals)
RF CONNECTORS.....	N female
COOLING.....	Maximum allowable enclosure temperature 60 °C

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**MODEL CONFIGURATIONS**

MODEL NUMBER	HEATSINK	HEATSINK SPECS	WEIGHT	SIZE (WxHxD)
KMA2040	NO	-	1.7 kg (3.75 lb.)	11.68 x 3.81 x 26.67 cm 4.6 x 1.5 x 10.5 in.
KMA2040M 1	YES	.95 kg, 38.2 sq.in/1", 1.7 °C/W/3"	2.65 kg (5.83 lb.)	11.68 x 7.37 x 26.67 cm 4.6 x 2.9 x 10.5 in.
KMA2040P	YES	.95 kg, 38.2 sq.in/1", 1.7 °C/W/3"	2.65 kg (5.83 lb.)	11.68 x 7.37 x 26.67 cm 4.6 x 2.9 x 10.5 in.

