



**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:** Dual Blanking. This provides gate bias control from TTL input.

**SPECIFICATIONS**

|                              |   |
|------------------------------|---|
| RATED POWER OUTPUT .....     | 200 Watts   |
| INPUT FOR RATED OUTPUT ..... | 2.0 mW maximum  |
| 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                                       |

**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<br>4.6 x 1.5 x 10.5 in. |
| KMA2040M1    | 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<br>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<br>4.6 x 2.9 x 10.5 in  |

