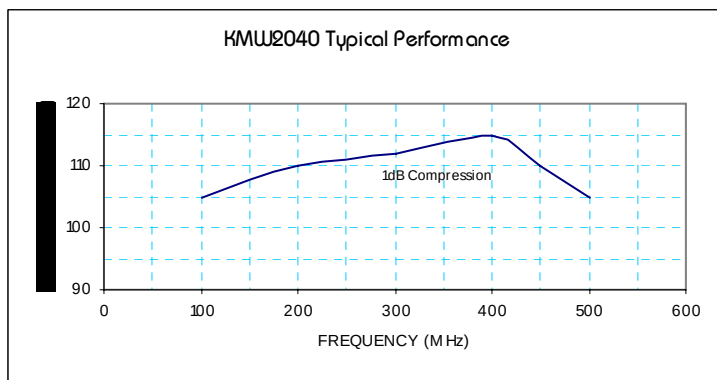


**MODEL KMW2040**  
**100 WATTS CW**  
**100 MHz - 500 MHz**

The Model KMW2040 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 .....            | 100 Watts                                                                           |
| INPUT FOR RATED OUTPUT .....        | 1.0 mW maximum                                                                      |
| POWER OUTPUT @ 1db COMPRESSION..... | 100 Watts minimum                                                                   |
| CLASS OF OPERATION.....             | Class AB                                                                            |
| FLATNESS .....                      | $\pm 2.0$ dB maximum                                                                |
| FREQUENCY RESPONSE.....             | 100 MHz - 500 MHz                                                                   |
| GAIN .....                          | 50 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 .....                  | 10 dB typical                                                                       |
| HARMONIC DISTORTION .....           | - 16 dBc maximum                                                                    |
| PRIMARY POWER .....                 | 28 V <sub>a</sub> @ 15 A (Solder terminals)                                         |
| RF CONNECTORS .....                 | SMA female                                                                          |
| COOLING.....                        | Maximum allowable enclosure temperature 60 °C                                       |



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### MODEL CONFIGURATIONS

| MODEL NUMBER | HEATSINK | HEATSINK SPECS                      | WEIGHT            | SIZE (WxHxD)                                    |
|--------------|----------|-------------------------------------|-------------------|-------------------------------------------------|
| KMW2040      | NO       | -                                   | 1.36 kg (3.0 lb.) | 11.43 x 3.94 x 16.26 cm<br>4.5 x 1.55 x 6.4 in. |
| KMW2040M1    | YES      | 1.55 kg, 50.3 sq.in/1", 1.4 °C/W/3" | 1.5 kg (3.3 lb.)  | 13.44 x 8.38 x 25.4 cm<br>6.08 x 3.3 x 10.0 in  |

