**MODEL KMW2053**
**200 WATTS CW**
**225 – 500 MHz**

The Model KMW2053 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 a 15-pin D-subminiature filtered connector 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

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|---|---|
| FREQUENCY RESPONSE | 225 – 500 MHz |
| POWER OUTPUT @ 1db COMPRESSION | 200 Watts minimum |
| INPUT FOR RATED OUTPUT | -3dBm maximum |
| GAIN AT 200 WATTS | 57dB minimum |
| FLATNESS AT 200 WATTS | +/- 1.3dB maximum |
| HARMONIC DISTORTION | -45dBc average (-24dBc maximum) |
| INTERMODULATION DISTORTION @ 0.2MHZ SPACING | -28dBc average (-24dBc maximum) |
| BROADBAND NOISE @ 1 MHz BANDWIDTH | -120dBm/Hz maximum |
| INPUT VSWR | 2:1 maximum |
| MISMATCH TOLERANCE | 2:1 @ rated power / 6:1 without damage |
| PRIMARY POWER | 29V @ 17A average (19A maximum) into 50 Ohms |
| CONNECTORS | SMA Female (RF input & output), 15 Pin D-sub (Filtered) |
| SIZE | TBD (estimate 8.5" x 6" x 1.5") |

## TEMPERATURE PERFORMANCE

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|---|---|
| OPTIMUM TEMPERATURE @ ENCLOSURE | <50° C |
| SHUTDOWN TEMPERATURE @ ENCLOSURE | 80° C |

## INTERFACE

| | |
|---|---|
| PIN 7 = ON/OFF | 30µSEC MAXIMUM (+5V or not connected = ON, ≤1V or ground = Off) |
| PIN 8 = SHUTDOWN STATUS | <1V @ 80° C / >5V normal state |
| PIN 1, 2, 3, 4, 5, 6 | +28V |
| PIN 9, 10, 11, 12, 13, 14 | -28V / ground |

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