

MODEL KMW2025M11
80 WATTS CW
30-512 MHz

The Model KMW2025 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 connection to the DC power source via the 9-pin connector. Cooling requirements defined by the data provided below and protection of the output devices against output mismatch are the responsibility of the user.

SPECIFICATIONS

FREQUENCY RESPONSE.....	30 - 512 MHz
POWER OUTPUT @ 1db COMPRESSION.....	80 Watts minimum
INPUT FOR RATED OUTPUT	1 Watts maximum
GAIN @ 40 WATTS	22 dB minimum
FLATNESS @ 40 WATTS	± 2 dB **
HARMONICS.....	-40 dBc average (-12 dBc maximum)
INTERMODULATION DISTORTION @ 0.2 MHZ SPACING	-30 dBc average (-24 dBc maximum)
BROADBAND NOISE @ 1 MHZ BANDWIDTH.....	130 dBm / Hz maximum
INPUT VSWR.....	2:1 maximum
OUTPUT VSWR	2:1 @ Rated Power 10:1 without damage
PRIMARY POWER @ 80 WATTS OUTPUT.....	28 V @ 8A average (10A max); 20mA OFF
CONNECTORS	SMA Female (RF input & output), 9-pin D-sub (filtered)
SIZE (W x L x H).....	4.5" x 5.25" x 1.5" (approximate)

TEMPERATURE PERFORMANCE

OPTIMUM TEMPERATURE @ ENCLOSURE	< 50° c
SHUTDOWN TEMPERATURE @ ENCLOSURE.....	80° C

INTERFACE

PIN 6 - ON/OFF.....	30 µsec maximum (+5V or not connected=ON) (≤ 1V or ground=Off)
PIN 2 – OVERTEMP STATUS*.....	< 1V @ 80° C / > 5V normal status
PIN 3, 4, 5	+ 28V
PIN 7, 8, 9	- 28V (ground)

* OUTPUT for LED available

**Tested with normalized setup

DOC # 7-98-902-011 REV B
