

MODEL KMW2025

100 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 15-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.....	100 Watts minimum
INPUT FOR RATED OUTPUT	1.0 mW maximum
GAIN AT 50 WATTS.....	50 dB minimum
FLATNESS AT 50 WATTS.....	± 2 dB maximum
HARMONICS.....	-40 dBc average (-11 dBc maximum)
INTERMODULATION DISTORTION @ 0.2 MHZ SPACING	-29 dBc average (-22 dBc maximum)
BROADBAND NOISE @ 1 MHZ BANDWIDTH.....	-125 dBm / Hz average
INPUT VSWR.....	2:1 maximum
OUTPUT VSWR	Rated Power 2:1
.....	Mismatch Tolerance 6:1
PRIMARY POWER AT 100 WATTS OUTPUT	28 V _{dc} @ 9A avg / 13A max / 2A standby / 0.5A Off
CONNECTORS	SMA Female (RF input & output), 15-pin D-sub (interface)
SIZE (W x L x H).....	4." x 7" x 1.5"

TEMPERATURE PERFORMANCE

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

INTERFACE

PIN 15 = ON/OFF.....	20 µsec maximum (+5V or not connected = 'ON' ≤1V or ground = 'Off')
PIN 7 – SHUTDOWN STATUS	<1V @ 80° C / 8V normal OR Temp shutdown LED line
PIN 1, 2, 3, 4, 5, 6	+ 28V
PIN 9, 10, 11, 12, 13, 14.....	- 28V (ground)

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