

MODEL KMW1090
25 WATTS CW
20 MHz - 1000 MHz

The Model KMW1090 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

CLASS OF OPERATION.....	Class AB
INPUT FOR RATED OUTPUT	0 dBm
POWER OUTPUT @ 1db COMPRESSION	25 Watts minimum
FLATNESS	± 2.5 dB maximum
FREQUENCY RESPONSE.....	20 MHz - 1000 MHz
GAIN	44 dB nominal
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	≤ 10 dB typical
INTERMODULATION DISTORTION	- 35dBc average (-25 dBc worst case)
2ND HARMONIC DISTORTION.....	- 35dBc average (-12dBc Worst case)
SPURIOUS	≤ 80dBc
ON/OFF TIME.....	≤ 5 μS (ON=TTL High Off=TTL Low [ground])
PRIMARY POWER @ 30W	28 V @ 5A average (8A worst)
RF CONNECTORS	SMA female
OPERATING TEMPERATURE @BASEPLATE	-20 TO +80° C (Degraded performance over + 50° C)
TEMPERATURE SHUTDOWN	+85° C @ baseplate
SIZE (L x W x H).....	8" x 4.8" x 1.75"

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