

**MODEL KMS2250**  
**200 WATTS CW**  
**2.45 GHz**

The Model KMS2250 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.

**SPECIFICATIONS**

FREQUENCY RESPONSE.....	2.45 GHz $\pm$ 5 MHz (Bandwidth 10 MHz minimum)
POWER OUTPUT.....	200 Watts
GAIN AT 200 WATTS.....	54dB $\pm$ 1dB
GAIN VARIATION OVER TEMPERATURE.....	$\leq \pm$ 1dB
HARMONIC DISTORTION .....	< -35dBc
SPURIOUS .....	< -75dBc
INPUT VSWR.....	1.5:1
OUTPUT VSWR .....	1.15:1
INPUT/OUTPUT IMPEDANCE.....	50 Ohms
POWER SUPPLY.....	28 V dc
CONNECTORS (RF) and POWER.....	RF Output = Type N, RF Input = Type SMA female, D sub combo
CONNECTORS (COUPLER).....	Forward & Reflected Port = Type N
SIZE (L x W x H).....	11" x 11" x 5" maximum (including heatsink)

**TEMPERATURE PERFORMANCE**

OPERATING TEMPERATURE .....	20° to 55° C ambient (0° to 80° C case temperature)
SHUTDOWN TEMPERATURE @ ENCLOSURE.....	85° $\pm$ 5° C (case temperature)
RESTART TEMPERATURE .....	55° $\pm$ 5° C
TEMPERATURE MONITOR .....	Analog Voltage Monitor (TBD)
OVER-TEMPERATURE RESET .....	If module shuts down due to over-temp, it will automatically restart unless held down with the Gating/RF Blanking input

**INTERFACE**

GATING/RF BLANKING .....	TTL High = Off / TTL Low = ON (5V Alarm)
OVER POWER ALARM.....	> 54dBm (5V Alarm)
AGC .....	Amplifier output power can be externally controlled over a minimum of 12dB range. This is an analog voltage control (0-1V typical) with a response time not exceeding 500msec.

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