



# PRELIMINARY

The Model KMS2010 is a 1.75 – 1.85 GHz Solid-State power amplifier module built for the wireless broadband network. This 52 dBm linear power amplifier has a scalable gain of 57 dB and is designed to meet most communication protocols including various types of OFDM or NPR requirements. The module comprises a printed wiring assembly housed in a machined aluminum enclosure. Cooling requirements are defined by the over-temperature shutdown limits listed below. The amplifier is protected from thermal overload, over power, over voltage or wrong voltage polarity as well as having an internal isolator.

## SPECIFICATIONS

FREQUENCY RANGE .....	1.75–1.85 GHz
GAIN .....	57 dB minimum
GAIN FLATNESS .....	±1 dB
GAIN VARIATION OVER TEMPERATURE .....	±1.5 dB minimum
OPERATION TEMPERATURE .....	0 – 85 Deg C (case)
P1dB .....	150 Watts minimum
OVER-POWER SHUTDOWN .....	53 dBm
IP3 @ 47 dBm OUTPUT POWER (44 dBm/TONE) .....	54 dBm minimum
INTERMODULATION DISTORTION.....	2% EVM
INPUT/OUTPUT IMPEDANCE .....	50 Ohms
OUTPUT ISOLATION .....	Built in Isolator
HARMONIC DISTORTION.....	Better than –60 dB @ 50 dBm
RETURN LOSS (INPUT/OUTPUT PORTS).....	15 dB
POWER SUPPLY.....	28 Vdc
DC CURRENT .....	12A maximum
RF CONNECTORS .....	Input: SMA Female/Output: Type-N Female
DC CONNECTOR .....	D-Sub Combo 7W2 (Mating connector supplied)

## FUNCTIONS

TEMPERATURE SHUTDOWN .....	Mute @ 85 ±5 Deg C (Auto restart @ 65 ±5 Deg C)
OVER-TEMPERATURE ALARM .....	<50 Deg C = TTL High
RF ENABLE/DISABLE .....	5V = ON 0V = OFF
VSWR Alarm .....	5V
RF FORWARD MONITOR .....	available
POWER AMP DISABLE .....	available

## MODEL CONFIGURATIONS

MODEL NUMBER	PART NUMBER	HEATSINK	SIZE (HxWxD) in.
KMS2010	1-60-XXX-XXX	NO	1.2x6.22x12.35
KMS2010M1	1-60-XXX-XXX	YES	TBD

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