



MODEL KMW2040LTE  
100W CW/120W PEAK 225-400MHz

OEM application, break between stages for insertion customer BP filter. Features: forward power monitor, heatsink temperature monitor, over-temperature protection/shutdown at 90°C heatsink with shutdown override feature, fast ON/OFF. DC and control connectors are supplied terminated with 1' wires.

Power @24.2 VDC	100W CW / 120W PEAK
Frequency	225 – 400MHz
Gain / Flatness window @50W CW [4dB attenuation inbreak]	56.5 – 58.5dB
Harmonics @100W CW	2 <sup>nd</sup> < -25dBc, 3 <sup>rd</sup> < -12dBc
Current @100W CW @24.2VDC	< 9A
IMD @120W PEAK 24.2VDC [7dB – 13dB PAPR]	< 34dBc
ON / OFF Function	OFF / ON Time < 20µS ON / OFF Ratio > -90dBc OFF current < 90mA
Heatsink operating temperature	-20°C ~ +70°C

**BREAK SPEC**

Break out	Gain 20dB ± 2dB Noise figure < 1.2dB
Break in / final	Gain 39dB ± 2dB NF < 8dB [225-260MHz] < 13dB
Breaks isolation / leakage	< 60dB

**PROTECTIONS**

Module will survive 120W peak into Open / Short
Module will survive 5dB overdrive over the Input for rated 120W PEAK

**INTERFACE**

RF connectors	MMCX / MCX
SIZE [heatsink with connectors]	3.8" x 3.1" x 1.5"
<b>Onboard 4 pin DC</b> , supplied with mating connector and 1' wires: [2 red – positive, 2 black – negative]	
<b>Onboard 6 pin control</b> , supplied with mating connector and 1' wires:	
GREEN – FWD power monitor, 40mA *	30W AVG = 2.2V ± 0.4V
BROWN – analog TEMP 40mA max, 10mV/°C	45°C ± 2°C = 1.64V ± 0.1V
YELLOW - 90°C heatsink OVRTMP shutdown defeat	Ground or < 0.5V to shutdown override
ORANGE - 90°C heatsink OVRTMP Monitor	3V = NORM; < 0.1V = OVRTMP
BLUE – ON / OFF	NC or > 4V = ON; GND or < 0.5V = OFF

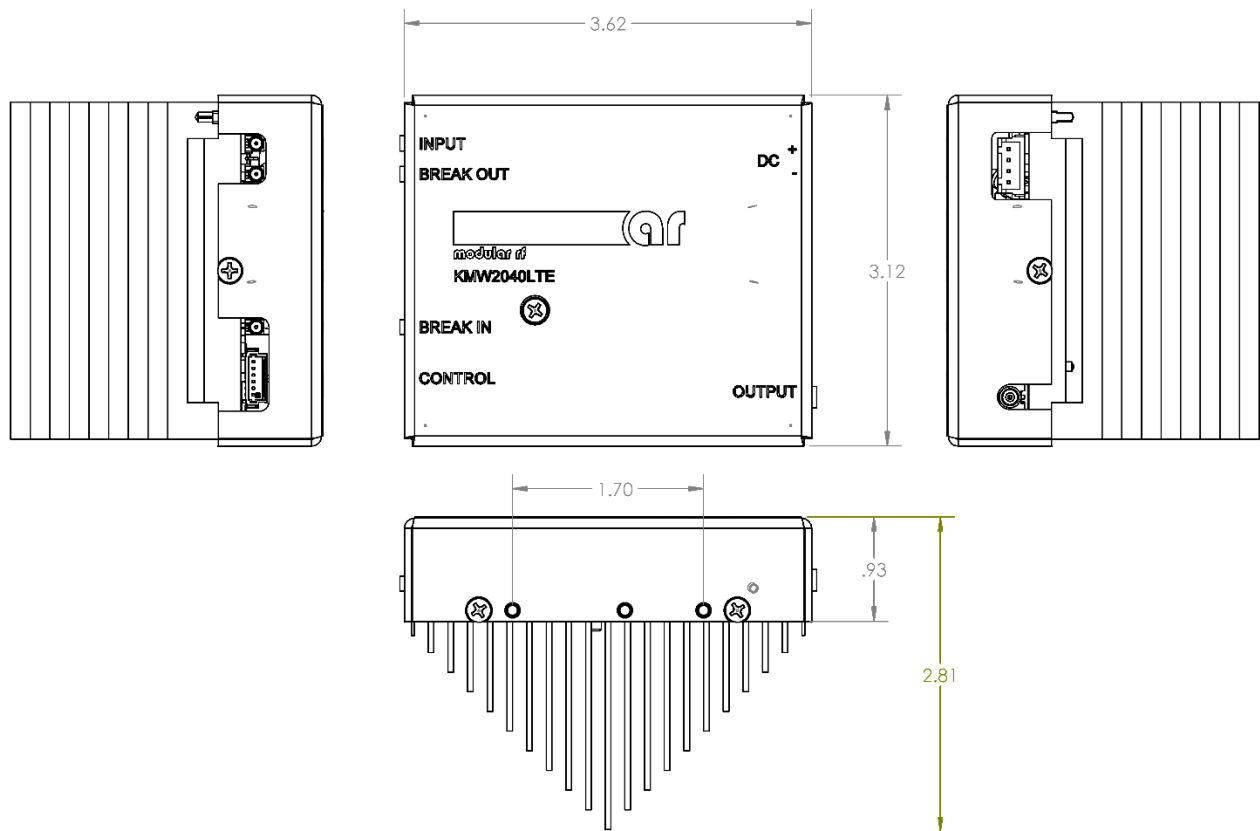
\* Forward monitor flatness includes changes across 230 – 400MHz

\* 120W PEAK / 30W AVG or higher into open output will read > 4.7V

### MODEL CONFIGURATION

MODEL NUMBER	HEATSINK	HEATSINK SPECS	WEIGHT	SIZE (W x H x D)
KMW2040LTE	YES	-	TBD	TBD

Drawing is for reference only. Details subject to change.



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