

## 2000-6000MHz/100Watt/Module

Model Number: KB2060M50A

The model KB2060M50A is a multi-octave high power amplifier operating between 2000 MHz and 6000 MHz and offering a wide dynamic Range with 100 Watts typical saturated power. The employment of advanced high power devices in manufacturing ensures this module exceptional power performance, long term reliability and high efficiency. It is ideal for multi octave broadband high power S/C Band applications.

### FEATURES:

- Broadband & High power;
- High Efficiency;
- Great Linearity;
- Small Size & Light Weight;
- Low Distortion

### ELECTRICAL SPECIFICATIONS @ +28.0VDC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	2000		6000	MHz
RF Output Power	P <sub>out</sub>		100		Watt
Power Gain	G <sub>p</sub>		50		dB
Power Gain Flatness	Δ G <sub>p</sub>		±3		dB
Input Return Loss	S <sub>11</sub>			-10	dB
Harmonics @80W	H		-6		dBc
Spurious Signals @80W	Spur		-55		dBc
Switch On/Off@10-90% Time	TON/OFF		2	5	μS
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC	26	28	30	Volt
DC Current @80W	I <sub>DD</sub>		25		Amp

### MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	180x110x25[7.08x4.33x0.98	mm [inch]	Maximum
Weight	3.5 [7.7]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	N, Female		
DC Interface Connector	Hybrid, D-Sub 7-Pin, Male		
Cooling	External Heat sink Required (Not Supplied)		

### ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-20		55	°C	
Non-operating Temperature	-30		60	°C	Storage
Relative Humidity (non-condensing)			95	%	

### ABSOLUTE MAXIMUM RATING

Input RF drive level without damage	+10 dBm (Max)
Load VSWR @ P <sub>OUT</sub> =80W	∞ @ all load phase & amplitude for duration of 1 minutes; 3:1 @ all load phase & amplitude continuous
Over Temperature	85°C @ heatsink [restored @ 60°C]

### DC INTERFACE CONNECTOR

Pin #	Description	Specifications
A1	VDD	28V <sub>DC</sub>

*Focus on Your Application*

\*Chengdu KeyLink Microwave Technology Co., Ltd.\*

>> 5-2, Huidu Headquarters Park, High-Tech(West) Zone, Chengdu, 611731, P. R. China

>> Phone: +86(28)87870761\*8708 >> Fax: +86(28)87883266

>> Email: sales@keylinkmw.com >> www.keylinkmw.com

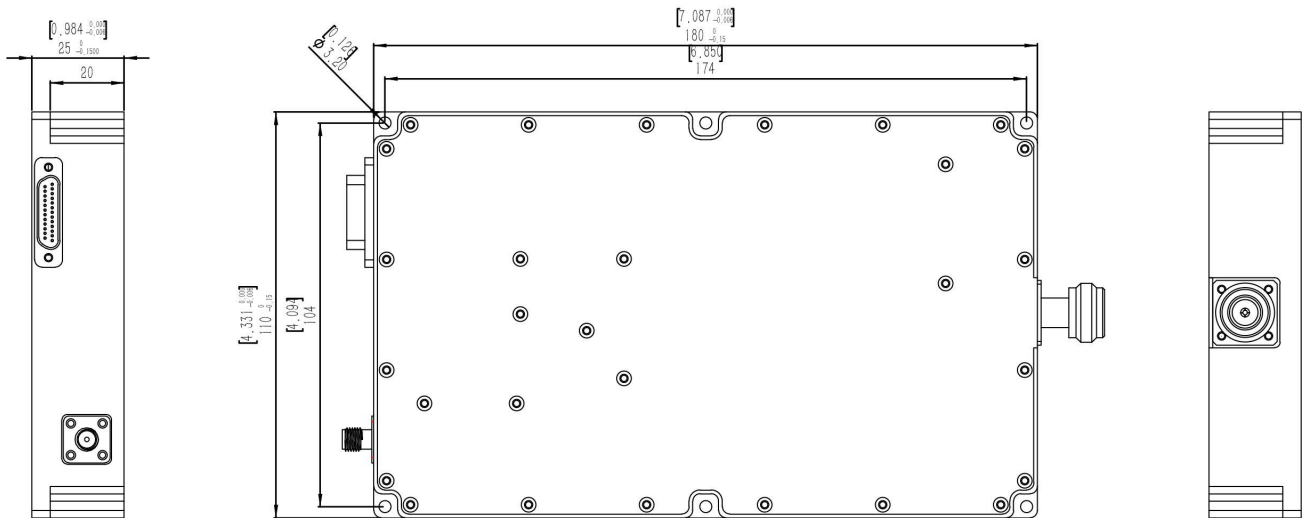
Specifications subject to change without notice

2000-6000MHz/100Watt/Module

Model Number: KB2060M50A

A2	GND	Ground
1	ENABLE	Amplifier Enable: TTL Logic High (3.3V) (Internally Pulled-Low)
2	CURRENT SENSE	Analog voltage relative to I <sub>DD</sub> @ 100mV per Ampere
3	TEMP SENSE	Analog voltage relative to Module's Temperature @ 10 mV/°C
4	NC	No electrical connection
5	GND	Ground

OUTLINE DRAWING (All dimensions in mm [inch])



*Focus on Your Application*

**\*Chengdu KeyLink Microwave Technology Co., Ltd.\***

>> 5-2, Huidu Headquarters Park, High-Tech(West) Zone, Chengdu, 611731, P. R. China

>> Phone: +86(28)87870761\*8708 >> Fax: +86(28)87883266

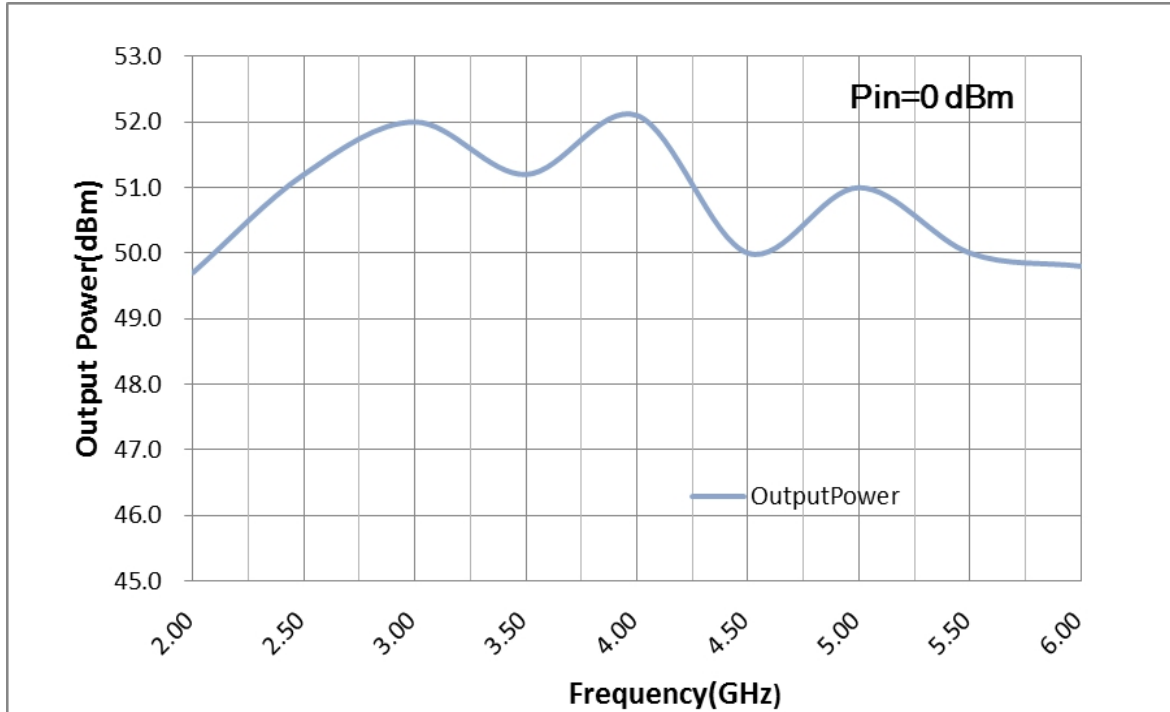
>> Email: sales@keylinkmw.com >> www.keylinkmw.com

Specifications subject to change without notice

## 2000-6000MHz/100Watt/Module

Model Number: KB2060M50A

### TYPICAL PERFORMANCE PLOTS (For reference only)



**Note:**

1. Adequate heat sink required.
2. This product will be developed upon contract/order. All the above specs are for reference only. Actual product may be different. Please check with Key Link sales team if you have any question.

*Focus on Your Application*

**\*Chengdu KeyLink Microwave Technology Co., Ltd.\***

>> 5-2, Huidu Headquarters Park, High-Tech(West) Zone, Chengdu, 611731, P. R. China

>> Phone: +86(28)87870761\*8708 >> Fax: +86(28)87883266

>> Email: sales@keylinkmw.com >> www.keylinkmw.com

*Specifications subject to change without notice*