

2-6GHz/200Watt/Module

Model Number: KB2060M53A

The model KB2060M53A is a multi-octave high power amplifier operating between 2GHz and 6GHz and offering a wide dynamic range with 200 Watts typical saturated power. The employment of GaN technology in manufacturing ensures this module state-of-the-art power performance with excellent power-to-volume ratio. It is ideal for jamming, EMC, test and measurement applications.

FEATURES:

- Small Size and Light Weight
- 50 Ohms Input and Output Matched
- Built-In Control and Protection Circuits, Including Over-Temperature Protection, Over-Current Protection, and Over- Voltage Protection.

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

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	2		6	GHz
RF Output Power@Pin=0dBm	Psat	200			Watt
Power Gain	Gp		53		dB
Power Gain Flatness	Δ Gp		±3		dB
Input Return Loss	S11			-10	dB
Harmonics@80W	H		-25	-17	dBc
Spurious Signals	Spur		-60		dBc
Switch On/Off@10-90% Time,1kHz	T _{ON/OFF}		2		μS
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V _{DC}	24	28	32	Volt
DC Current @200W	I _{DD}		45		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	330x280x33 [12.99x11.02x1.30]	mm [inch]	Maximum
Weight	7 [15.43]	kg [lbs]	Maximum
RF Connector Input	SMA, Female		
RF Connector Output	N, Female		
DC Interface Connector	J29A-31ZK, Male		
Control Connector	J30J-09ZK, Male		
Cooling	External Heatsink Required (Not Supplied)		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		60	°C	
Non-operating Temperature	-45		85	°C	Storage
Relative Humidity (non-condensing)			95	%	

ABSOLUTE MAXIMUM RATING

Input RF drive level without damage	+5dBm (Max)
Load VSWR @ Pout =100W	∞ @ all load phase & amplitude for duration of 1 minute 3:1 @ all load phase & amplitude continuous
Over Temperature	85°C @ heatsink [restored @ 60°C]

Focus on Your Application

Chengdu KeyLink Wireless Technology Co., Ltd.

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

>> Phone: +86(28)87870761

>> Fax: +86(28)87883266

>> Email: sales@keylinkmw.com

>> www.keylinkmw.com

Specifications subject to change without notice

2-6GHz/200Watt/Module

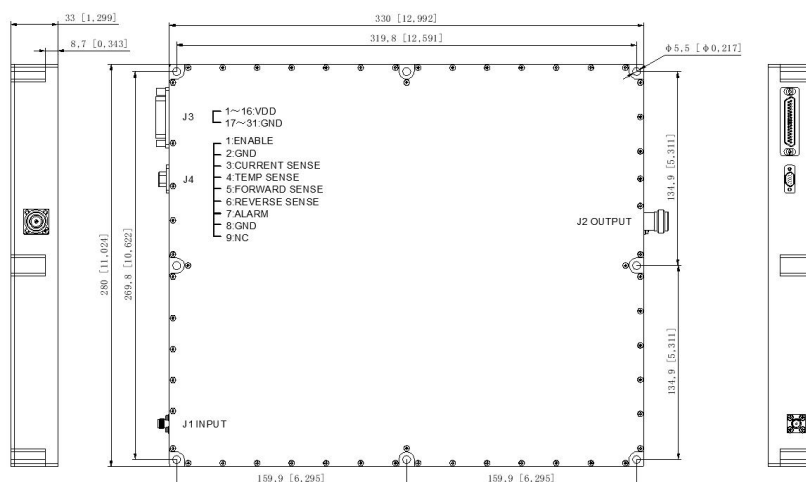
Model Number: KB2060M53A

DC INTERFACE CONNECTOR

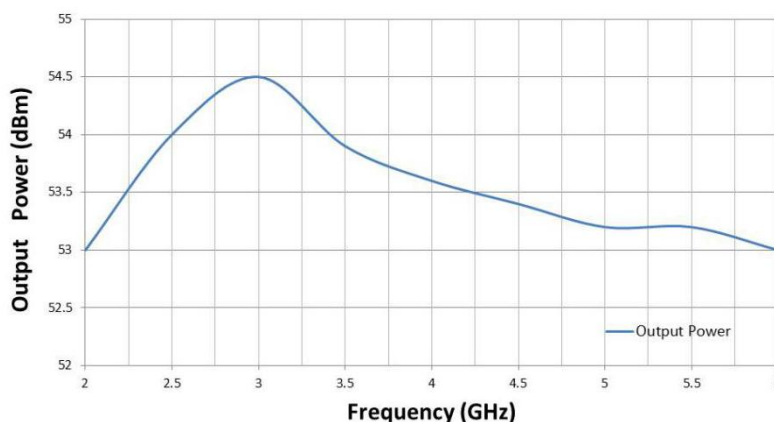
Pin #	Description	Specifications
1-16	VDD	28VDC
17-31	GND	Ground

Pin #	Description	Specifications
1	ENABLE	Amplifier Enable: TTL Logic High (3.3V~5V) (Internally Pulled-Low)
2	GND	Ground
3	CURRENT SENSE	Analog voltage relative to IDD @ 50mV per Ampere
4	TEMP SENSE	Analog voltage relative to Module's Temperature @ 0.5V+10 mV/°C
5	FORWARD SENSE	Analog voltage relative to forward power level
6	REVERSE SENSE	Analog voltage relative to reflected power level
7	ALARM	Amplifier Alarm indicator: Normally TTL Low
8	GND	Ground
9	NC	Not connection

OUTLINE DRAWING (All dimensions in mm [inch],dimensional tolerance:±0.2mm(0.008 inch))



TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)



Note: Adequate heatsink required.

Focus on Your Application

Chengdu KeyLink Wireless Technology Co., Ltd.

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

>> Phone: +86(28)87870761

>> Fax: +86(28)87883266

>> Email: sales@keylinkmw.com

>> www.keylinkmw.com

Specifications subject to change without notice