

1-6GHz/100Watt/Module

Model Number: KB1060M50A

The model KB1060M50A is a multi-octave high power amplifier operating between 1GHz and 6GHz and offering a wide dynamic Range with 100 Watts typical saturated power. The employment of gallium nitride (GaN) and chip-and-wire 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
- Instantaneous ultra broadband
- 50 Ohms input and Output matched
- Built-in control and protection circuits

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

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	1000		6000	MHz
RF Output Power@ PIN=0dBm	PSAT		100		Watt
Power Gain @PSAT	Gp		50		dB
Power Gain Flatness	Δ G		±2.5		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @80W	H		-10		dBc
Spurious Signals	Spur		-55		dBc
Switch On/Off@10-90% Time ,1kHz	T _{on/off}		2	5	μS
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V _{DC}	24	28	32	Volt
DC Current @100W	I _{DD}		20		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	180x110x25 [7.09x4.33x0.98]	mm [inch]	Maximum
Weight	2.0 [4.4]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	N, Female		
DC Interface Connector	J30J-25-Pin, 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	+10 dBm (Max)
Load VSWR @ POUT =80W	∞ @ 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*8708 >> Fax: +86(28)87883266

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

Specifications subject to change without notice

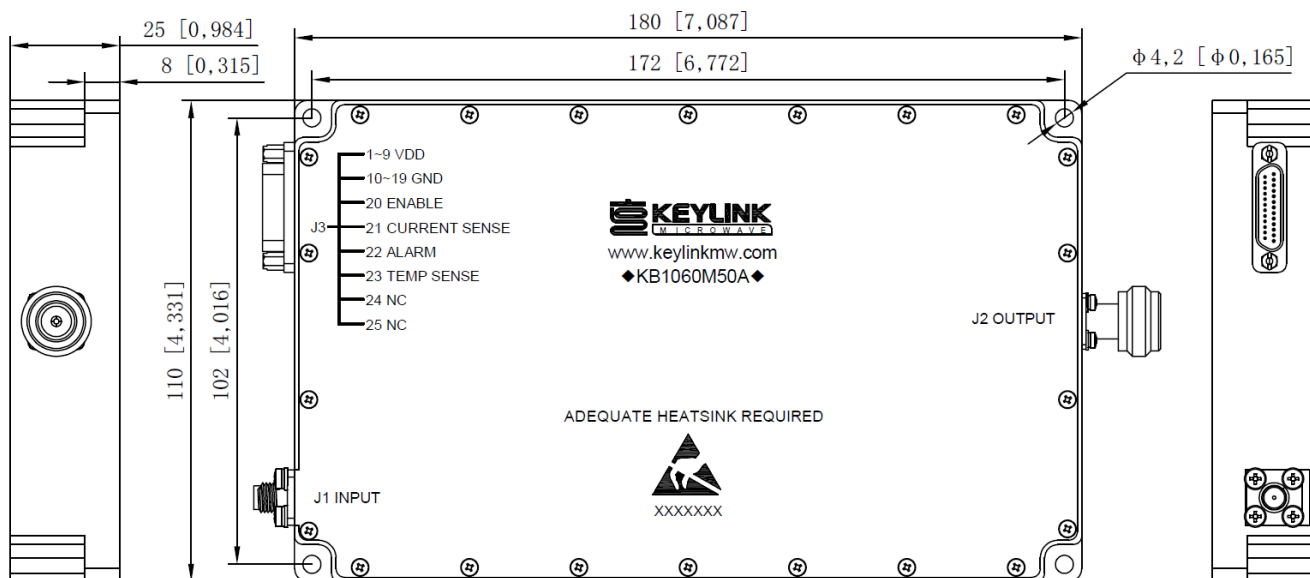
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DC INTERFACE CONNECTOR

Pin #	Description	Specifications
1-9	VDD	28VDC
10-19	GND	Ground
20	ENABLE	Amplifier Enable: TTL Logic High (3.3V~5V) (Internally Pulled-Low)
21	CURRENT SENSE	Analog voltage relative to IDD @ 100mV per Ampere
22	ALARM	Amplifier Alarm indicator: Normally TTL Low
23	TEMP SENSE	Analog voltage relative to Module's Temperature @ 10 mV/°C
24,25	NC	No electrical connection

OUTLINE DRAWING [All dimensions in mm [inch]]



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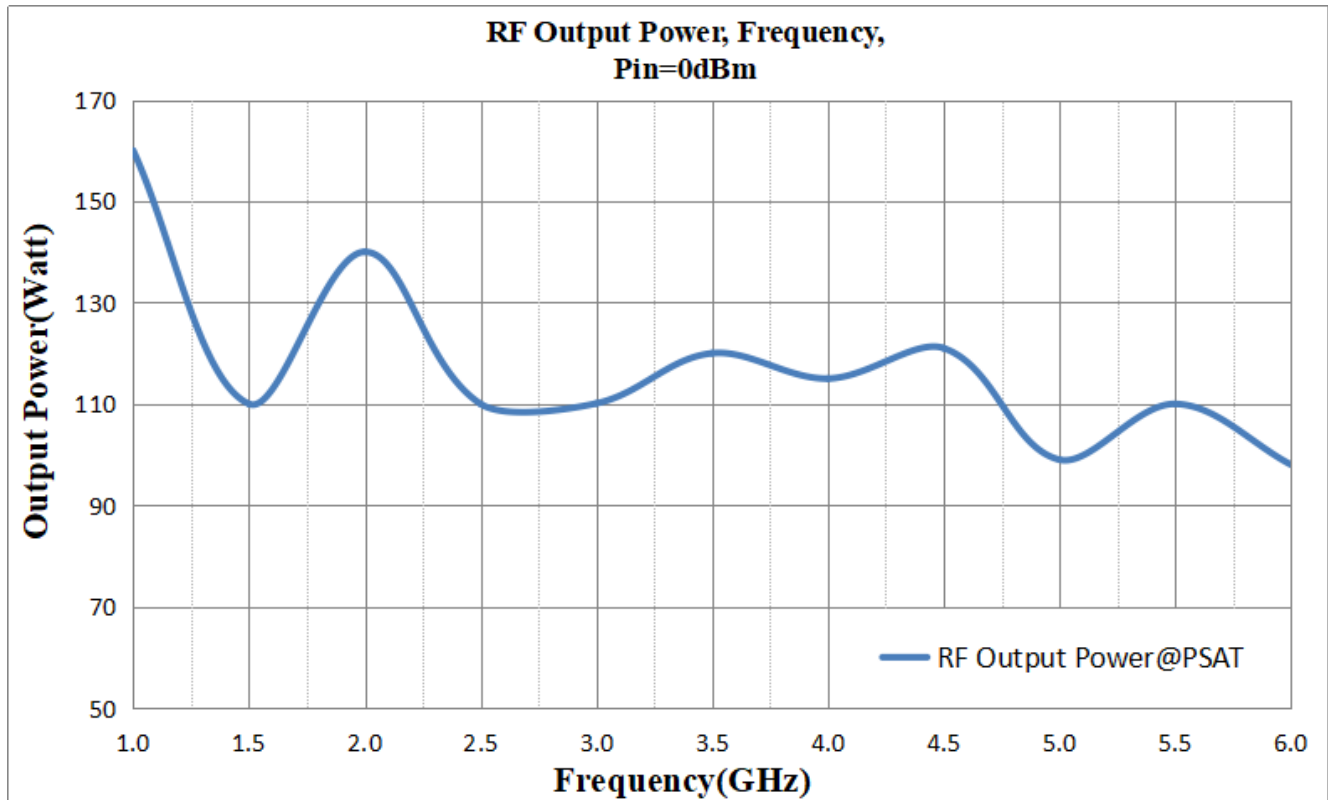
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TYPICAL PERFORMANCE PLOTS (For reference only)

Output Power (Normal temp. +25±3°C)



Note: Adequate heatsink required.

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