

800-2500MHz/50Watt/Module
Model Number: KB0825M47B

The model KB0825M47B is a multi-octave high power amplifier operating between 800 MHz and 2500 MHz and offering a wide dynamic Range with 50 Watts typical saturated power. The employment of gallium nitrate (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 multi-octave high power RF applications.

FEATURES:

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

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

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	800		2500	MHz
Output Power CW	PSAT		50		Watt
Power Gain	Gp		49		dB
Gain Flatness	ΔGp		±2		dB
Harmonics @ POUT = 35W	H		-12		dBc
Spurious Signals	Spur		-60		dBc
Input Return Loss	S11			-10	dB
Operating Voltage	VDC		28		Volt
Current Consumption @ POUT = 50W	IDD		8		Amp
Current Consumption @ Shutdown	ISD		0.2		Amp
Switching Speed	TON/OFF		2		uS
RF Input to Output Isolation(During OFF State)	Isolation		85		dBc
In/Output Impedance	Impedance		50		Ω

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	140x85x20.5 [5.5x3.3x0.8]	mm [inch]	Maximum
Weight	0.8 [1.76]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	SMA, Female		
DC Interface Connector	D-Sub 9-Pin, Male		
Cooling	External Heatsink Required (Not Supplied)		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		80	°C	
Non-operating Temperature	-40		85	°C	Storage
Relative Humidity (non-condensing)			95	%	

Absolute Maximum Rating

Input RF drive level without damage	+10 dBm (Max)
Load VSWR @ POUT =35W	∞ @ all load phase & amplitude for duration of 1 minute; 3:1 @ all load phase & amplitude continuous

Focus on Your Application

Chengdu KeyLink Microwave Technology Co., Ltd.

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Specifications subject to change without notice

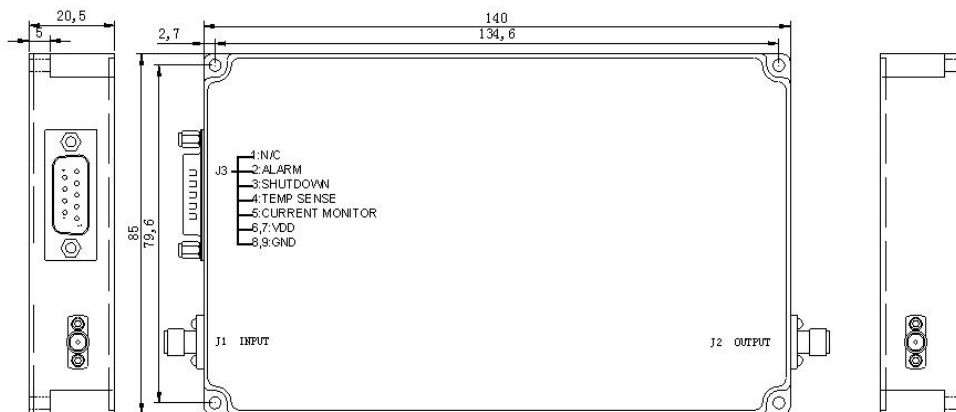
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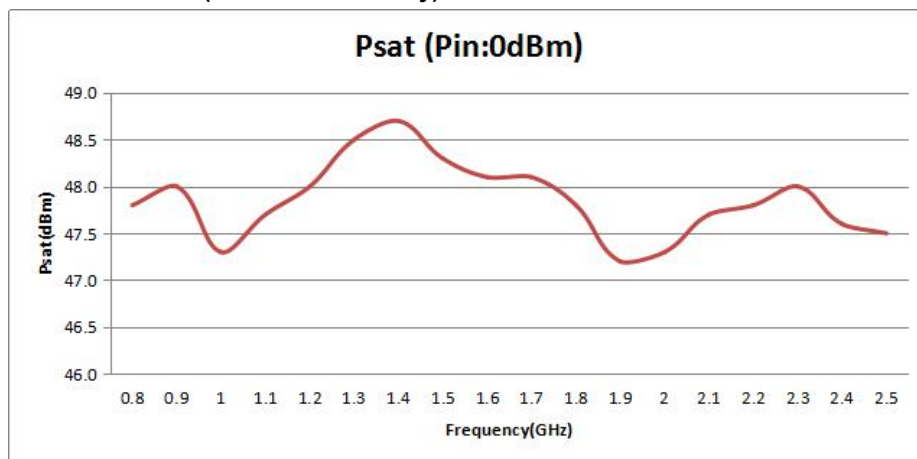
DC INTERFACE CONNECTOR

Pin #	Description	Specifications
1	N/C	No electrical connection
2	Alarm	Amplifier Alarm indicator: Normally TTL Low A logic High indicates a fault condition, 0/3.3V Logic Levels
3	Shutdown	Amplifier Disable: TTL Logic High (3.3V) (Internally Pulled-Low)
4	Temperature Sense	Analog voltage relative to Module's Temperature @ 10 mV/°C
5	Current Monitor	Analog voltage relative to IDD @ 100mV per Ampere
6	VDD	28VDC
7	VDD	28VDC
8	GND	Ground
9	GND	Ground

OUTLINE DRAWING (All dimensions in mm)



TYPICAL PERFORMANCE PLOTS (For Reference Only)



Note:

1. Adequate heatsink 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 KeyLink sales team if you have any question.

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