

800-4000MHz/80Watts/Module

Model Number: KB0840M49B

The model KB0840M49B is a multi-octave high power amplifier operating between 800 MHz and 4000 MHz and offering a wide dynamic Range with 80 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 broadband mobile Jamming and band specific high power linear applications in the P/L/S frequency bands.


Features:

- Broadband & High power;
- High Efficiency
- Extraordinary Harmonic Control
- Smaller Size and Lighter Weight
- Low Distortion

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

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	800		4000	MHz
RF Output Power	Pout		80		Watt
Power Gain	GP		50		dB
Small Signal Gain Flatness	Δ GSS		±3		dB
Input Return Loss	S11			-10	dB
Harmonics @ 50W	H		-18	-10	dBc
Spurious	Spur		-60		dBc
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC	42	48	50	Volt
DC Current @ 80W	IDD		14		Amp
Switching Time @1kHz TTL	Ton/Toff		10		uSec

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	200 x 120 x 20	mm [inch]	Max
Weight	1.2	kg [lbs]	Max
RF Connectors Input	SMA, Female		
RF Connectors Output	TNC, Female		
DC Interface Connector	D-Sub 15-Pin, Male		
Cooling	External Heatsink (Not Supplied)		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-20		60	°C	
Storage Temperature	-40		65	°C	Storage
Relative Humidity (non-condensing)			95	%	

Focus on Your Application

Chengdu KeyLink Microwave Technology Co., Ltd.

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Specifications subject to change without notice

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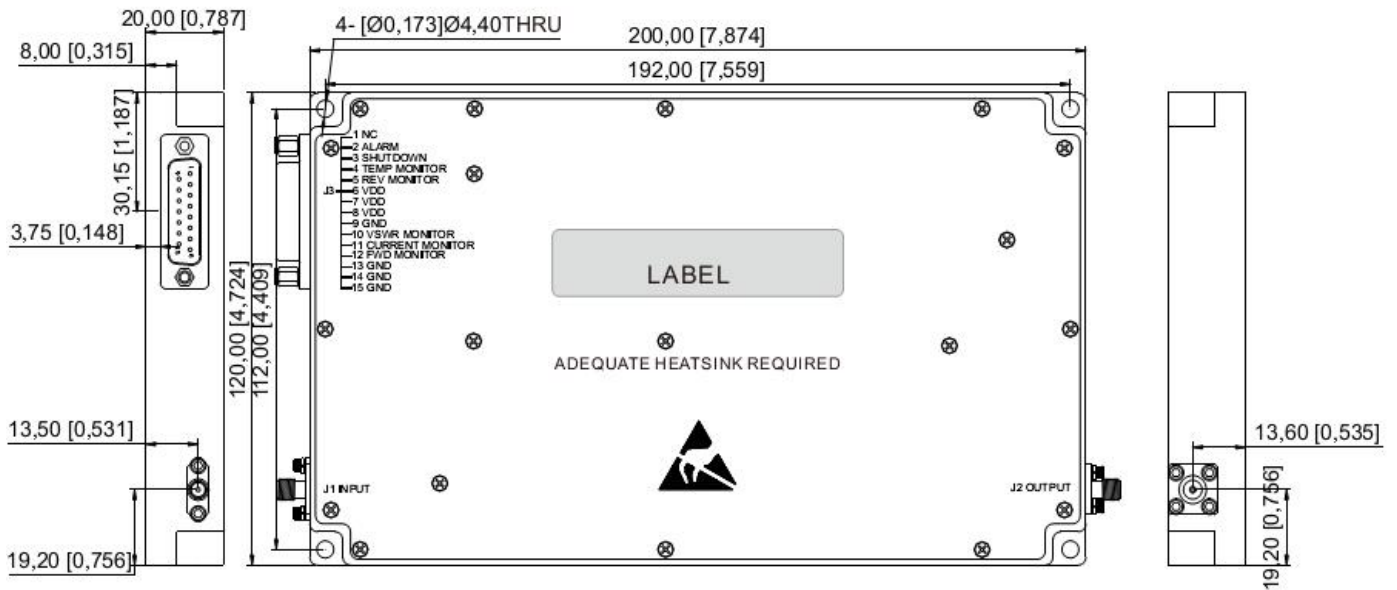
Absolute Maximum Rating

Input RF drive level without damage	+10 dBm
Load VSWR @ POUT = 50W	∞ @ all load phase & amplitude for duration of 30 minutes 3:1 @ all load phase & amplitude continuous
Thermal Overload	85°C shutdown

DC INTERFACE CONNECTOR

Pin #	Description	Specifications
1	N/C	No electrical connection
2	Alarm	Amplifier Alarm indicator: Normally TTL Low
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[inch])



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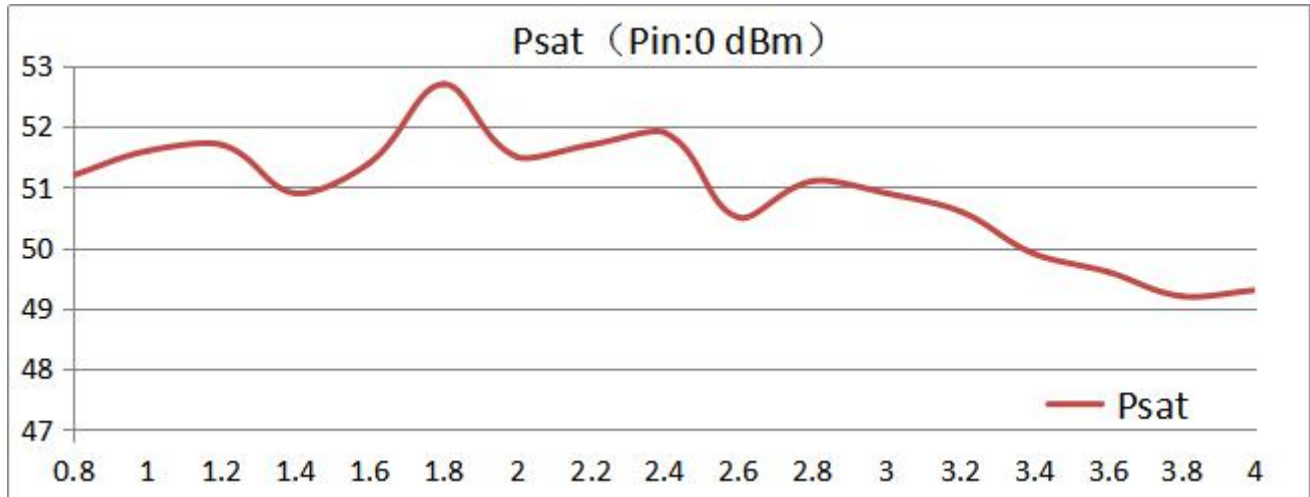
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TYPICAL PERFORMANCE PLOTS (For Reference Only)



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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