

1000-2500MHz/50Watts/Module
Model Number: KB1025M47A

The model KB1025M47A is a multi-octave high power amplifier operating between 1000 MHz and 2000 MHz and offering a wide dynamic Range with 50 Watts typical saturated power. The employment of advanced high power GaN devices in manufacturing ensures this module exceptional power performance, long term reliability and high efficiency. It is ideal for multi-octave broadband high power RF linear applications.

FEATURES:

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

ELECTRICAL SPECIFICATIONS @ 220VAC, 25°C, CW, 50Ω System

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	1000		2500	MHz
RF Output Power	Pout		50		Watt
Power Gain	Gp		49		dB
Gain Flatness	Δ Gp			±2	dB
Input Return Loss	S11			-10	dB
Harmonics @35W	H			-12	dBc
Spurious Signals	Spur		-60		dBc
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC		28		Volt
DC Current @50W	IDD			6	Amp
Current Consumption @ Shutdown	ISD		.2		Amp
Switch On/Off @10-90% Time	Ton/off		2		uS
RF Input to Output Isolation(During OFF State)	Isolation		85		dBc

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	140x 85 x 20.5 [5.51x3.34x0.81]	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	-45		85	°C	Storage
Relative Humidity (non-condensing)			95	%	

ABOSOLUTE MAXMUIM RATING

Input RF drive level without damage	+10 dBm (Max)
Load VSWR @ POUT =50W	∞ @ all load phase & amplitude for duration of 1 minutes; 3:1 @ all load phase & amplitude continuous
Over Temperature	85°C @ heatsink [restored @ 60°C]

Focus on Your Application
Chengdu KeyLink Microwave Technology Co., Ltd.

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Specifications subject to change without notice

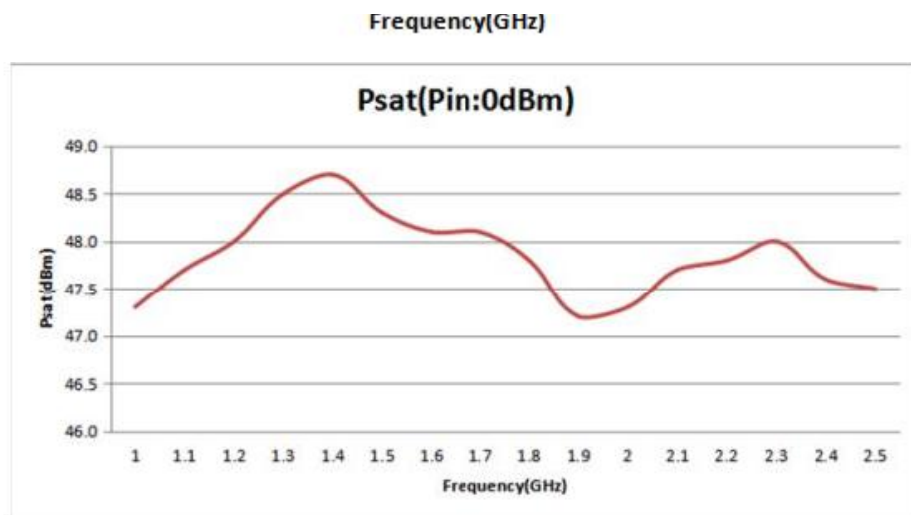
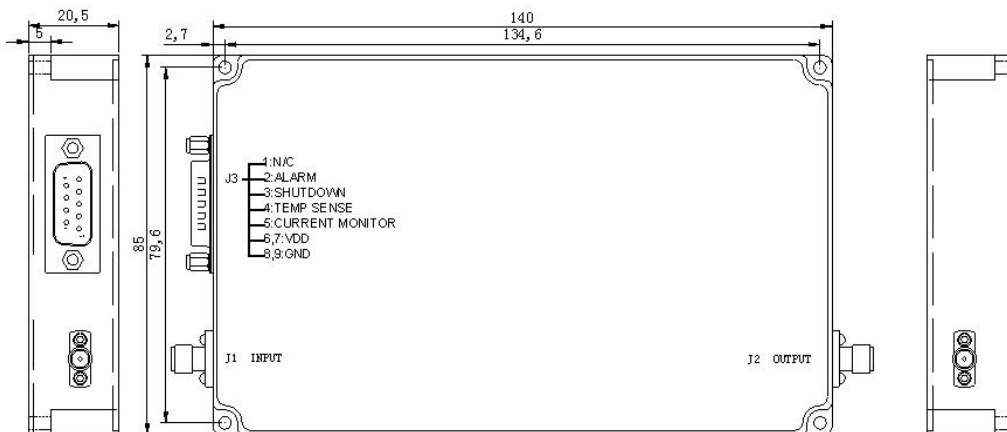
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DC INTERFACE CONNECTOR

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)



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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