

2500-6000 MHz/50Watt/Module

Model Number: KB2560M47A

The model KB2560M47A is a high power amplifier operating between 2500 MHz and 6000 MHz and offering a wide dynamic Range with 50 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 multi-octave broadband high power RF, HF&VHF&UHF linear applications.

FEATURES:

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

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

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	2500		6000	MHz
RF Output Power	Pout		50		Watt
Power Gain	Gp		48		dB
Power Gain Flatness	Δ Gp		±2		dB
Input Return Loss	S11			-10	dB
2nd Harmonics @30W	H		-15		dBc
Spurious			-60		dBc
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC	24	28	32	Volt
DC Current@50W	IDD		9		Amp
Switching Time@1kHz TTL	Ton/Toff		10		uSec

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	160 x 100 x 25	mm	Max
Weight	4	kg	Max
RF Connectors Input	SMA, Female		
RF Connectors Output	TNC, Female		
DC Interface Connector	Hybrid,D-Sub 7-Pin,Male		
Cooling	External Heatsink (Not Supplied)		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Case Temperature	-20		60	°C	
Non-operating Temperature	-25		65	°C	
Relative Humidity (non-condensing)			95	%	

ABSOLUTE MAXIMUM RATING

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

Focus on Your Application

Chengdu KeyLink Microwave 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

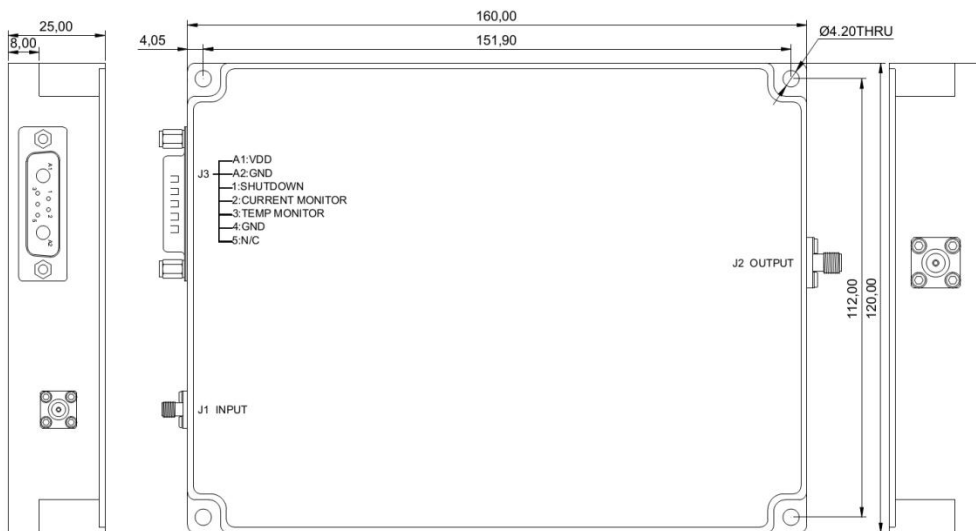
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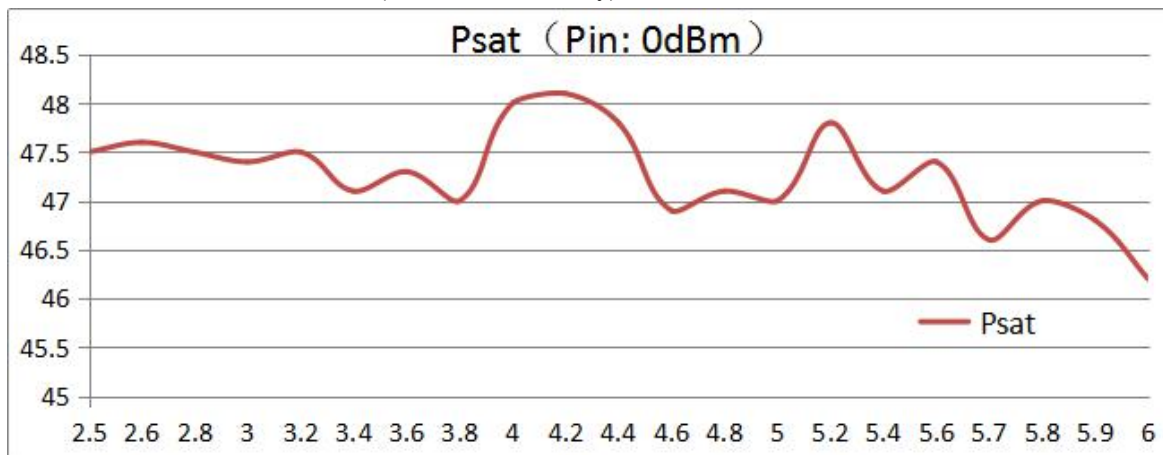
DC INTERFACE CONNECTOR

Pin #	Description	Specifications
A1	VDD	28VDC
A2	GND	Ground
1	SHUTDOWN	Amplifier Disable: TTL Logic High (3.3V) (Internally Pulled-Low)
2	CURRENT MONITOR	Analog voltage relative to IDD @ 100mV per Ampere
3	TEMP MONITOR	Analog voltage relative to Module's Temperature @ 10 mV/°C
4	GND	Ground
5	N/C	No Connection

OUTLINE DRAWING (All dimensions in mm [inch])



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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