

6000-18000MHz/40Watts/Module

Model Number: KB60180M46A

The model KB60180M46A is a multi-octave high power amplifier operating between 6000 MHz and 18000 MHz and offering a wide dynamic Range with 40 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's suitable for multi-octave broadband high power RF, MF & HF applications.

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(Full Band)	Bw	6000		18000	MHz
RF Output Power	P _{out}		40		Watt
Power Gain	G		46		dB
Power Gain Flatness	Δ G _P		± 3.5		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @40W	H		-15		dBc
Spurious			-65		dBc
In/Output Impedance	Impedance	-	50		Ω
Operating Voltage	V _{DC}	26	28	30	Volt
DC Current @40W	I _{DD}		19		Amp
Switch On/Off @10-90% Time	T _{ON/OFF}		10		uS

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	160x 120 x 25 [6.3x4.7x0.98]	mm [inch]	Max
Weight	3[6.6]	kg [lbs]	Max
RF Connectors Input	SMA, Female		
RF Connectors Output	TNC, Female		
DC Interface Connector	D-sub 7-Pin, Male		
Cooling	External Heatsink Required (Not Supplied)		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		65	°C	
Non-operating Temperature	-55		80	°C	Storage
Relative Humidity (non-condensing)			95	%	

ABOSOLUTE MAXIMUM RATING

Input RF drive level without damage	+10 dBm (Max)
VSWR protection	∞ @all load phase & amplitude for duration of 1 minutes; 3:1 @all load phase & amplitude continuous
Over Temperature	85°C @heatsink [restored @65°C]

Focus on Your Application

Chengdu KeyLink Microwave Technology Co., Ltd.

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Specifications subject to change without notice

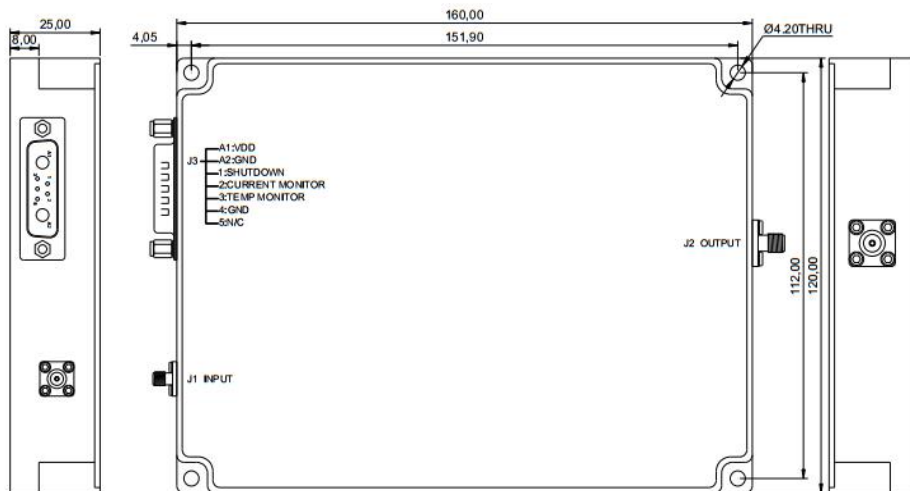
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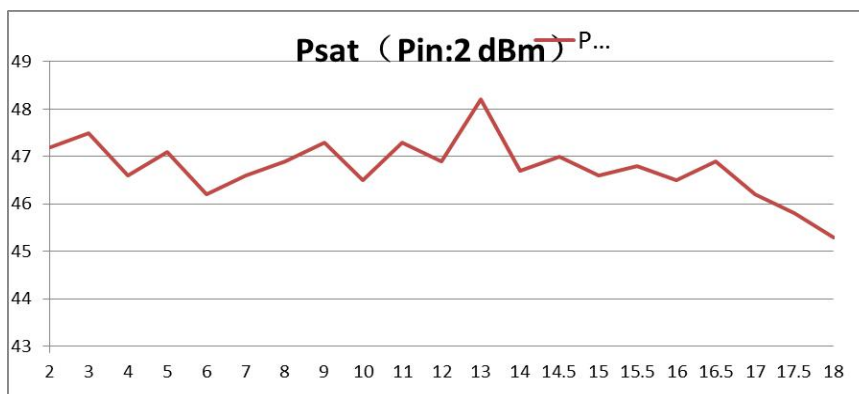
DC INTERFACE CONNECTOR

Pin #	Description	Specifications
A1	VDD	28 ± 2VDC
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	NC	No electrical connection

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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