

## 6000-18000MHz/25Watt/Module

**Model Number: KB60180M44A**

The model KB60180M44A is a multi-octave high power amplifier operating between 6 GHz and 18 GHz and offering a wide dynamic Range with 25 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, C&Ku linear applications.

**FEATURES:**

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

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

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	6		18	GHz
RF Output Saturated Power	Psat		25		Watt
Power Gain @Psat	Gp		44		dB
Power Gain Flatness	Δ Gss		±2.5		dB
Input Return Loss	S <sub>11</sub>			-10	dB
2nd Harmonics @2 W	H		-12		dBc
Spurious	Spur		-55		dBc
Switch On/Off@10-90% Time	TON/OFF		10	20	μS
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC	24	28	32	Volt
DC Current @10~25 W	IDD		6	7	Amp

**MECHANICAL SPECIFICATIONS**

Parameter	Value	Units	Notes
Dimensions	160x120x22	mm	Maximum
Weight	1.2	kg	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	TNC, Female		
DC Interface Connector	D-Sub 25-Pin, Male		
Cooling	External Heatsink Required (Not Supplied)		

**ENVIRONMENTAL CHARACTERISTICS (Design to Meet)**

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

**ABSOLUTE MAXIMUM RATING**

Input RF drive level without damage	+10 dBm (Max)
Load VSWR @ POUT = W	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*

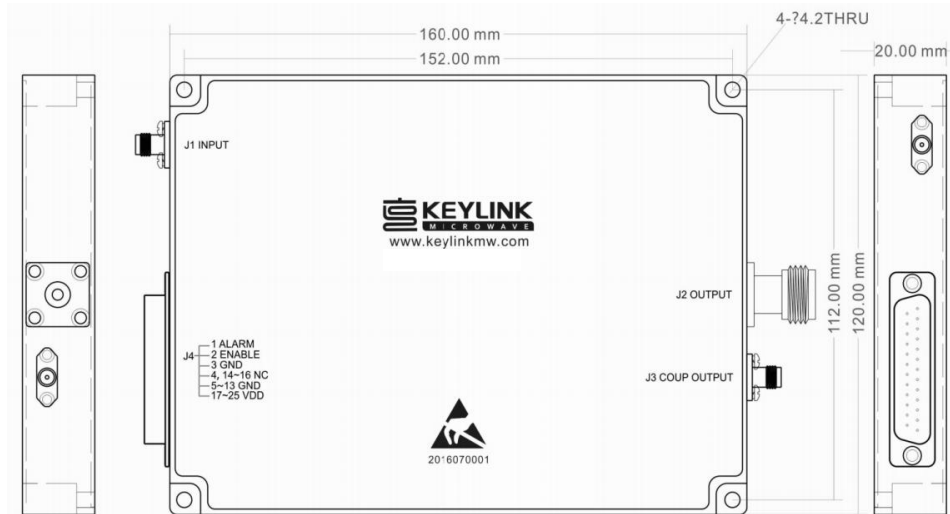
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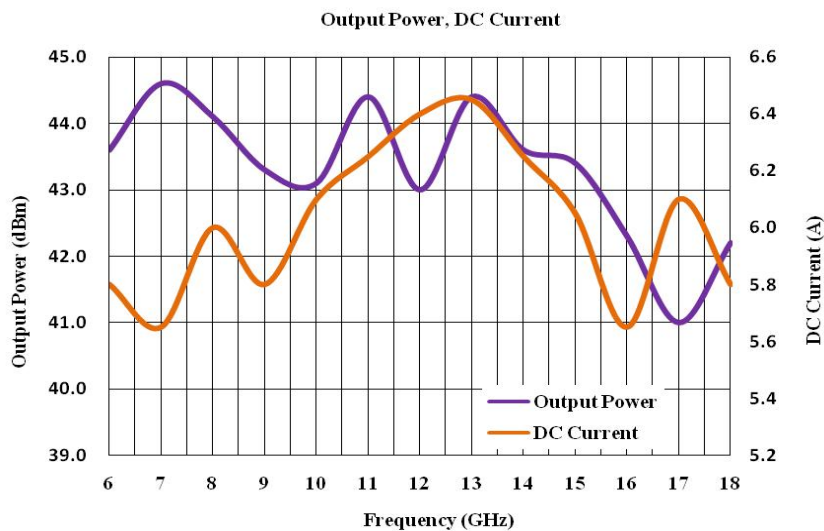
DC INTERFACE CONNECTOR

Pin #	Description	Specifications
1	ALARM	ALARM Report: TTL Logic High(3.3V)(Normally Pulled-Low)
2	ENABLE	Amplifier Enable: TTL Logic High (3.3V) (Internally Pulled-Low)
3	GND	Ground
4,14~16	NC	No electrical Connection
5~13	GND	Ground
17~25	VDD	28Vdc

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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