

1000-6000MHz/50Watt/Module

Model Number: KB1060M47A

The model KB1060M47A is a multi-octave high power amplifier operating between 1000 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 L, S, C band applications.

FEATURES:

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

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

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	1000		6000	MHz
RF Output Power @1dB	P1dB		50		Watt
Power Gain	Gp		49		dB
Small Signal Gain Flatness	Δ Gss		± 4		dB
Input Return Loss	S ₁₁			-10	dB
2 nd Harmonics @50W	H		-15	-8	dBc
Switch On/Off @10-90% Time@Rated Power			2	5	μS
Spurious Signals	Spur		-55		dBc
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC	26	28	30	Volt
DC Quiescent Current	IDQ		25		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	400 x 300 x 25 [15.7x11.8x0.98]	mm [inch]	Maximum
Weight	8 [17.6]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	TNC, Female		
DC Interface Connector	Hybrid 9 Pin D-Sub, 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	-25		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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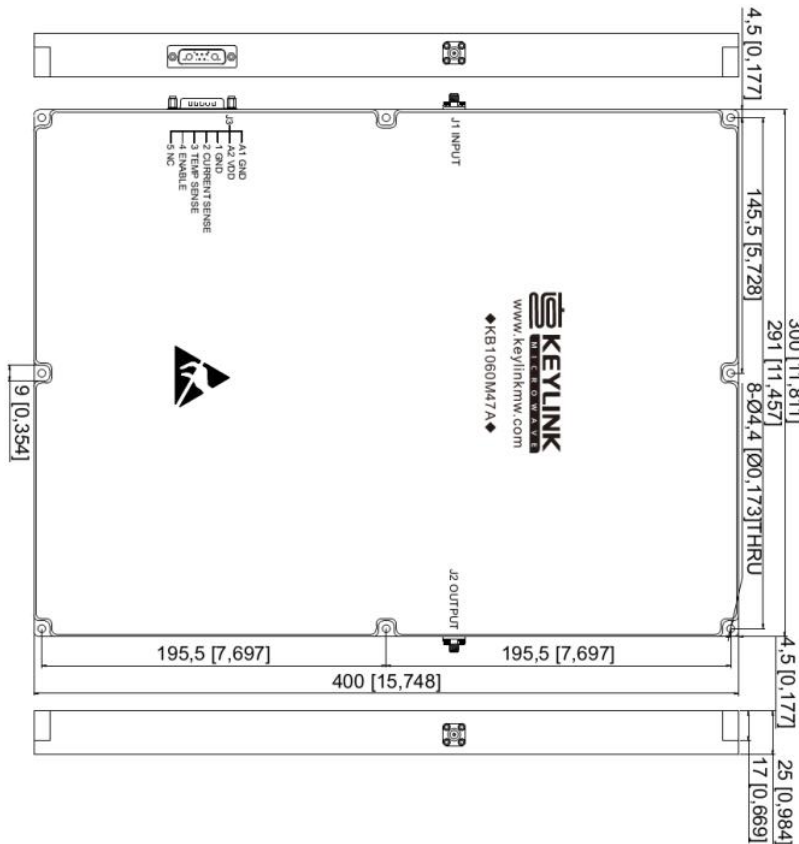
Absolute Maximum Rating

Input RF drive level without damage	+10 dBm (Max)
Load VSWR @ POUT =50W	∞ @ all load phase & amplitude for duration of 30 minutes; 3:1 @ all load phase & amplitude continuous
Over Temperature	85°C @ heatsink [restored @ 60°C]

DC INTERFACE CONNECTOR

Pin #	Description	Specifications
A2	VDD	28VDC
A1	GND	Ground
1	GND	Ground
3	TEMP SENSE	Analog voltage relative to Module's Temperature @ 10 mV/°C
2	CURRENT MONITOR	Analog voltage relative to IDD @ 100mV per Ampere
4	ENABLE	TX-GATE On: TTL Logic High (3.3V)
5	NC	No electrical connection

OUTLINE DRAWING (All dimensions in mm [inch])



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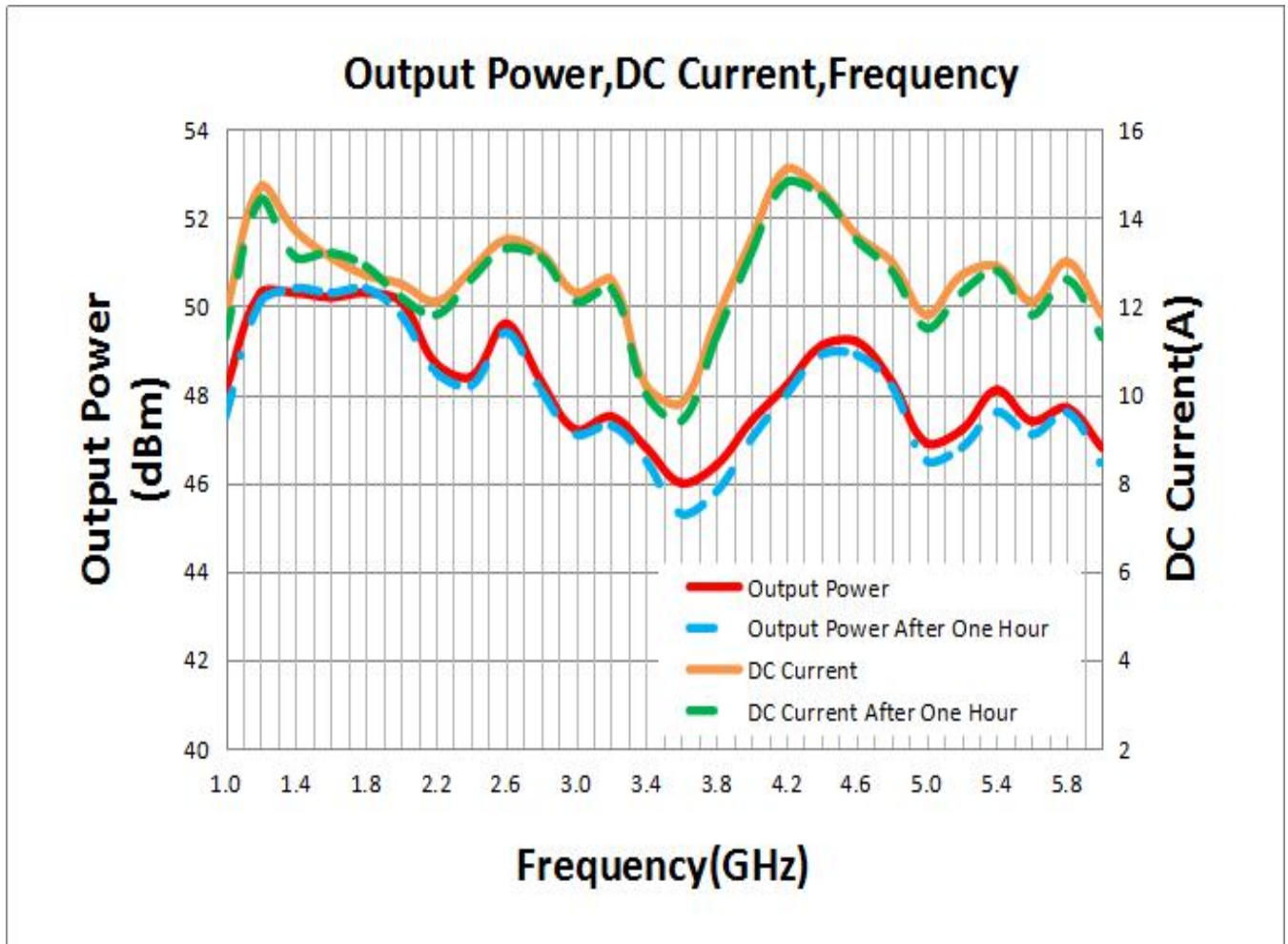
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TYPICAL PERFORMANCE PLOTS

Low temp. $-20 \pm 3^{\circ}\text{C}$



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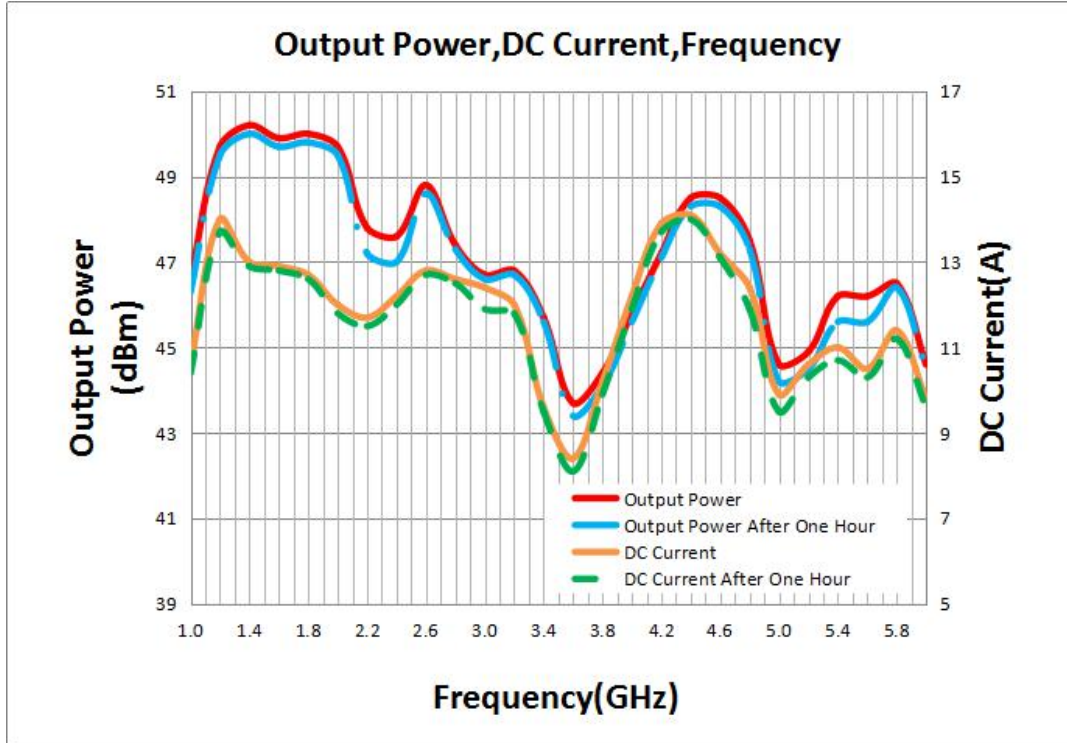
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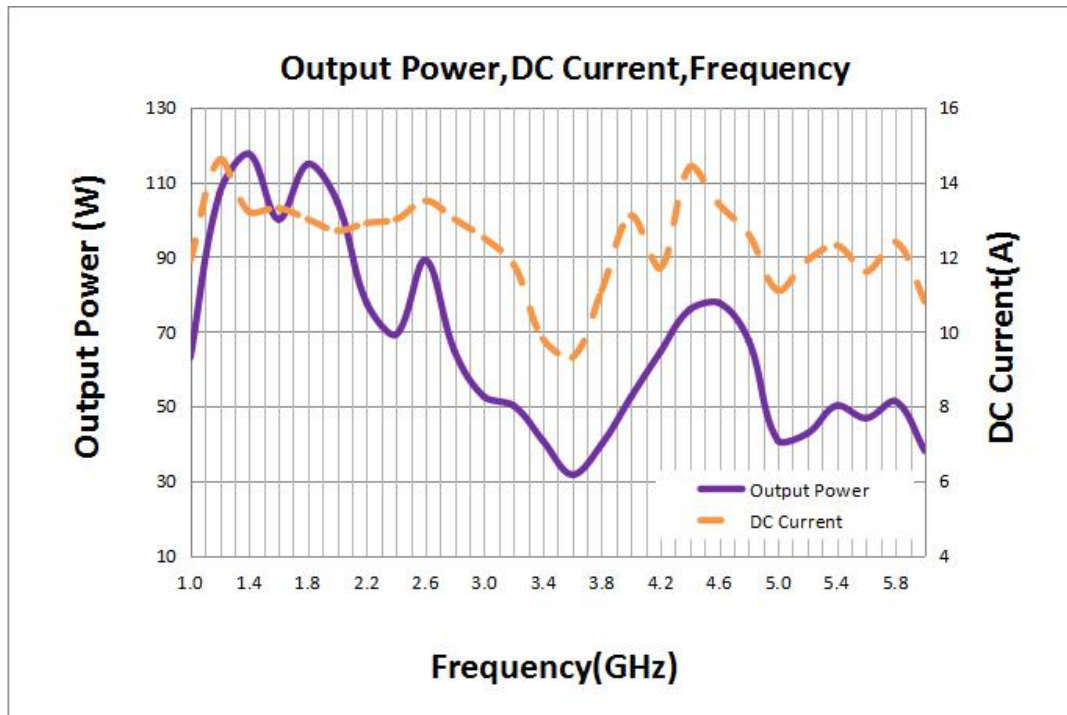
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High temp. +60±3°C



Normal temp. +25±3°C



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