

2000-6000MHz/10Watt/Module

Model Number: KB2060M40A

The model KB2060M40A is a multi-octave high power amplifier operating between 2000 MHz and 6000 MHz and offering a wide dynamic Range with 10 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 S/C Band applications.

FEATURES:

- Broadband & High Power
- High Efficiency
- Smaller Size and Lighter Weight
- Built-in Control and Protection Circuits

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

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency(Full Band)	BW	2000		6000	MHz
RF Output Power@Pin=0dBm	PSAT		10		Watt
Power Gain	Gp		40		dB
Power Gain Flatness	ΔG_P		± 2		dB
Input Return Loss	S11			-10	dB
Harmonics @8W	H		-10		dBc
Spurious	Spur		-60		dBc
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC	26	28	30	Volt
DC Current @8W	IDD		2		Amp
Switch On/Off @10-90% Time, 1KHz	TON/OFF		2	3	uS

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	150 x 90 x 25 [5.91x3.54x0.98]	mm [inch]	Max
Weight	1.2[2.64]	kg [lbs]	Max
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		60	°C	
Non-operating Temperature	-45		85	°C	Storage
Relative Humidity (non-condensing)			95	%	

ABOSOLUTE MAXIMUM RATING

Input RF drive level without damage	+5 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 Wireless Technology Co., Ltd.***

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Specifications subject to change without notice

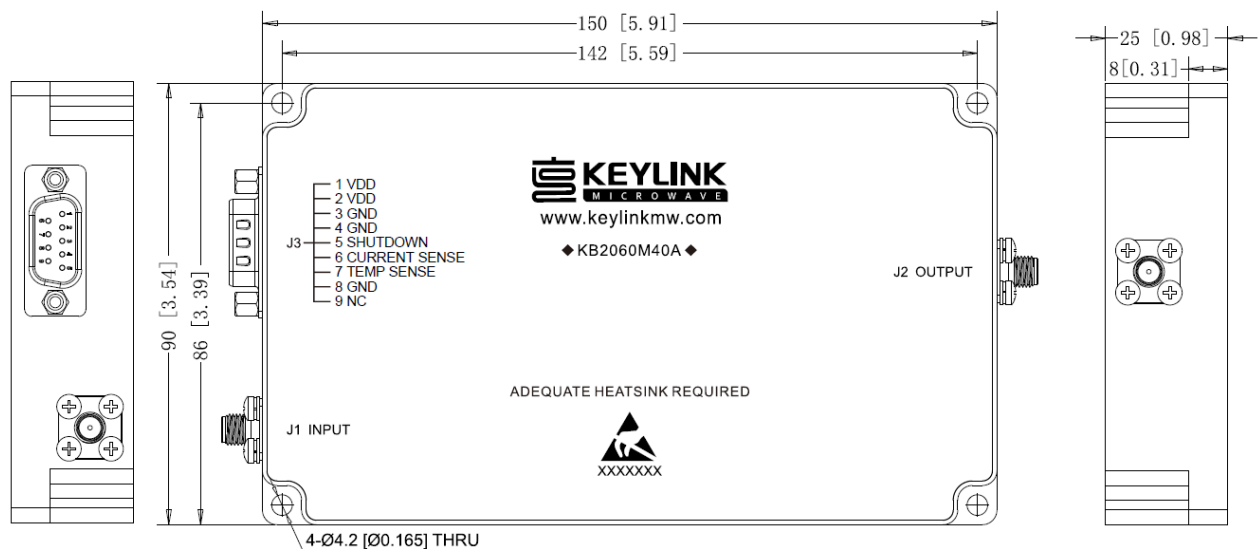
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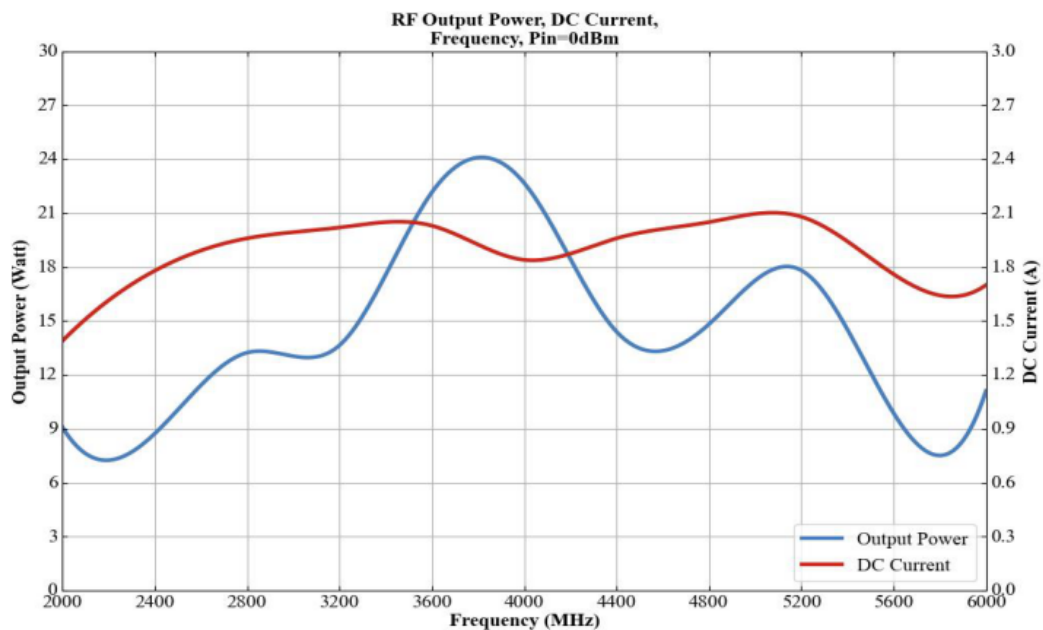
DC INTERFACE CONNECTOR

Pin #	Description	Specifications
1.2	VDD	28±2VDC
3.4.8	GND	Ground
5	SHUTDOWN	Amplifier Disable: TTL Logic High (3.3V~5V) (Internally Pulled-Low)
6	CURRENT SENSE	Analog voltage relative to IDD @100mV per Ampere
7	TEMP SENSE	Analog voltage relative to Module's Temperature @0.5V+10 mV/°C
9	NC	No electrical connection

OUTLINE DRAWING (All dimensions in mm)



TYPICAL PERFORMANCE PLOTS (For reference only)



Note: Adequate heatsink required.

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