

500-1000MHz/100Watt/Module

Model Number: KB0510M50A

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

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	500		1000	MHz
RF Output Power	P _{out}	100			Wat
Power Gain	G		50		dB
Power Gain Flatness	Δ G		±2		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @50W	H		-15		dBc
Spurious Signals	Spur		-55		dBc
In/Output Impedance			50		Ω
Operating Voltage	V _{DC}	26	28	30	Volt
DC Current @100W	I _{DD}		10		Amp
Switching Time @1kHz TTL	T _{on/off}		2	5	μS

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	170x130x30 [6.7x5.1x1.2]	mm [inch]	Maximum
Weight	2 [4.4]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	Type-N, 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 Temperature	-40		80	°C	
Non-operating Temperature	-45		85	°C	Storage
Relative Humidity (non-condensing)			95	%	

Absolute Maximum Rating

Input RF drive level without damage	+10 dBm	Maximum
Load VSWR @ P _{OUT} =50W	∞ @ all load phase & amplitude for duration of 1minute; 3:1 @ all load phase & amplitude continuous	
Thermal Overload	85°C °C shutdown	Maximum

DC INTERFACE CONNECTOR

Pin #	Description	Specifications
A1	VDD	28V _{DC}
A2	GND	Ground
1	SHUTDOWN	Amplifier Disable: TTL Logic High (3.3V) (Internally Pulled-Low)
2	TEMP SENSE	Analog voltage relative to Module's Temperature @ 10 mV/°C
3	CURRENT SENSE	Analog voltage relative to I _{DD} @ 100mV per Ampere
4	GND	Ground
5	NC	No electrical connection

Application-oriented RF Power Amplifier Manufacturer

Chengdu Keylink Microwave Technology Co., Ltd.

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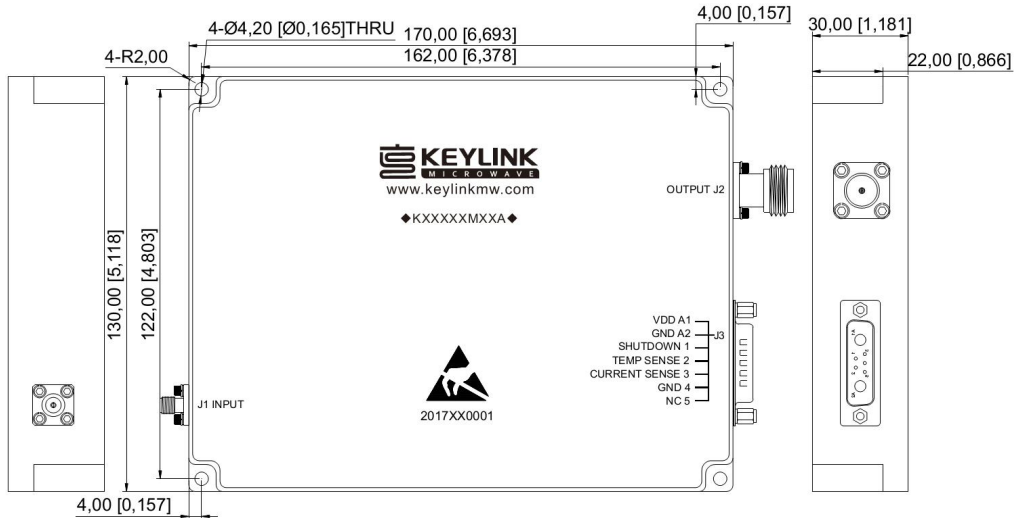
>>sales@keylinkmw.com >>www.keylinkmw.com

Specification subject to change without notice

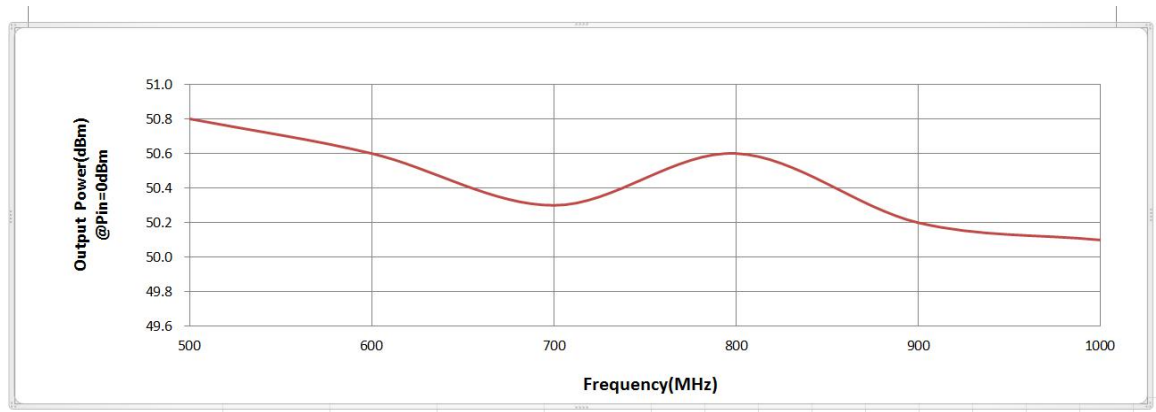
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OUTLINE DRAWING (All dimensions in mm [inch])



TYPICAL PERFORMANCE PLOTS



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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