

400-1000MHz/25Watt/Module
Model Number: KB0410M44A
ELECTRICAL SPECIFICATIONS @ +28.0VDC, 25°C, 50Ω System

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	400		1000	MHz
RF Output Power	P _{out}		25		Watt
Power Gain	G		44		dB
Small Gain Flatness	Δ G		±2		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @15W	H		-15		dBc
Spurious Signals	Spur		-60		dBc
In/Output Impedance			50		Ω
Operating Voltage	V _{DC}	26	28	30	Volt
DC Current @25W	I _{DD}		4		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	180x90x27[7.1 x3.6 x1.1]	mm [inch]	Maximum
Weight	1.5 [3.3]	kg [lbs]	Maximum
RF Connectors Input	SMA Female		
RF Connectors Output	SMA Female		
DC Interface Connector	D-Sub 9-Pin, Male		
Cooling	External Heatsink (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	%	

Absolute Maximum Rating

Input RF drive level without damage	+10 dBm	Maximum
Load VSWR @ P _{OUT} =15W	∞ @ all load phase & amplitude for duration of 30 minutes; 3:1 @ all load phase & amplitude continuous	
Thermal Overload	85°C shutdown	Maximum

DC INTERFACE CONNECTOR

Pin #	Description	Specifications
1	VDD	28V _{DC}
2	VDD	28V _{DC}
3	VDD	28V _{DC}
4	GND	Ground
5	GND	Ground
6	GND	Ground
7	CURRENT MONITOR	Analog voltage relative to I _{DD} @ 100mV per Ampere
8	TEMP SENSE	Analog voltage relative to Module's Temperature @ 10 mV/°C
9	ENABLE	Amplifier Disable: TTL Logic High (3.3V) (Internally Pulled-Low)

Focus on Your Application

Chengdu KeyLink Microwave Technology Co., Ltd.

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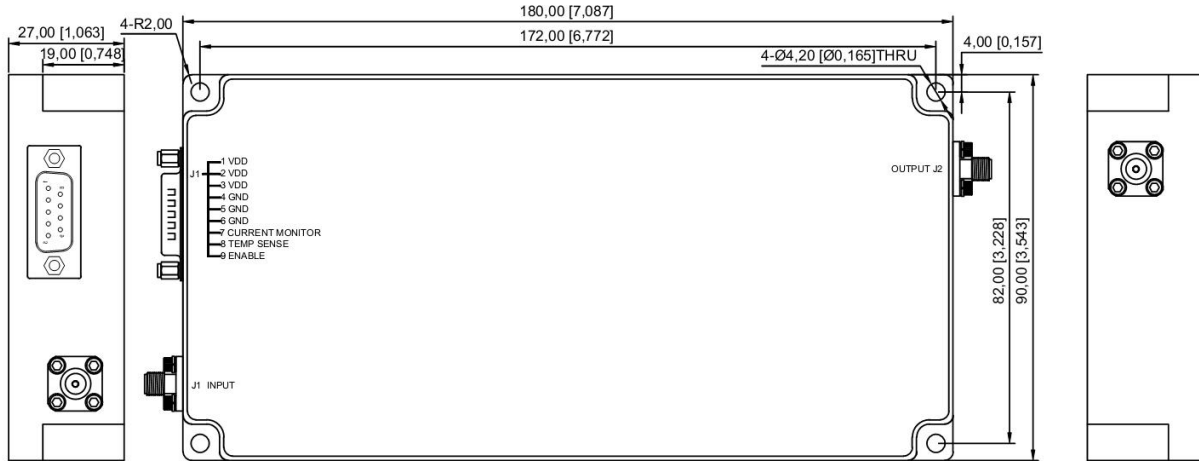
>> Email: sales@keylinkmw.com >> www.keylinkmw.com

Specifications subject to change without notice

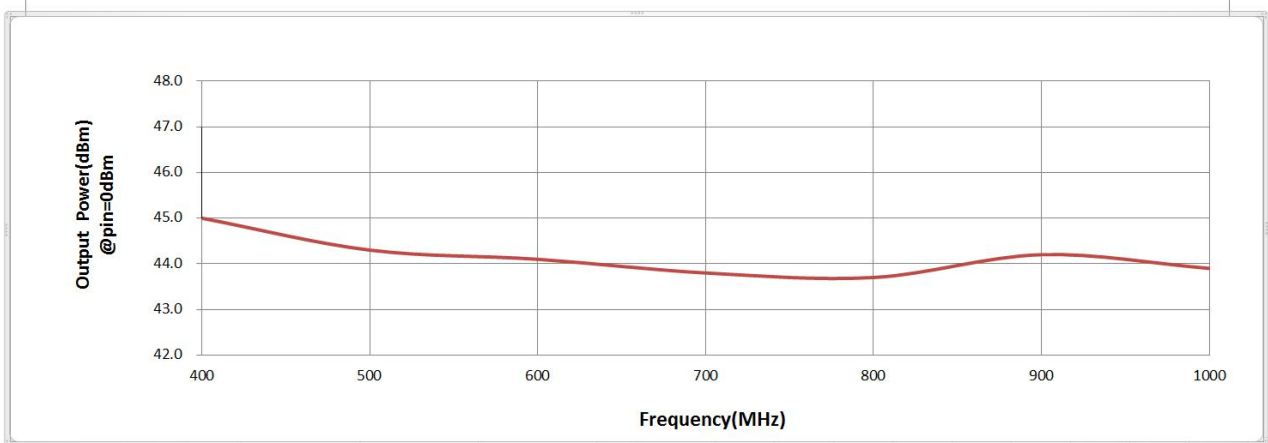
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OUTLINE DRAWING (All dimensions in mm [inch])



TYPICAL PERFORMANCE PLOTS (For Reference Only)



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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