

**0.79-0.96GHz/150Watt/Module**

*Model Number: KN875M52A*

The model KN875M52A is a high power amplifier operating between 0.79GHz and 0.96GHz and offering a wide dynamic Range with 150 Watts typical power. The employment of gallium nitride (LDMOS) and chip-and-wire technology in manufacturing ensures this module state-of-the-art power performance with excellent power-to-volume ratio. It is ideal for jamming, EMC, test and measurement applications.

**FEATURES:**

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

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

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	0.79		0.96	GHz
RF Output Power P1	P1	150			Watt
Power Gain	Gp		50		dB
Power Gain Flatness	Δ Gp		±2		dB
Input Return Loss	S11			-10	dB
Harmonics @100W	H		-15		dBc
Spurious Signals	Spur		-55	-50	dBc
In/Output Impedance			50		Ω
Operating Voltage	VDC	24	28	32	Volt
DC Current @150W	IDD		15		Amp
Switching Time @1kHz TTL	Ton/off			2	uSec

**MECHANICAL SPECIFICATIONS**

Parameter	Value	Units	Limits
Dimensions	170x130x30 [6.69x5.12x1.18]	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	-20		60	°C	
Non-operating Temperature	-25		65	°C	Storage
Relative Humidity (non-condensing)			95	%	

**Absolute Maximum Rating**

Input RF drive level without	+5 dBm (Max)
Load VSWR @ POUT =50W	∞ @ all load phase & amplitude for duration of 3 minute; 3:1 @ all load phase & amplitude continuous
Thermal Overload	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*

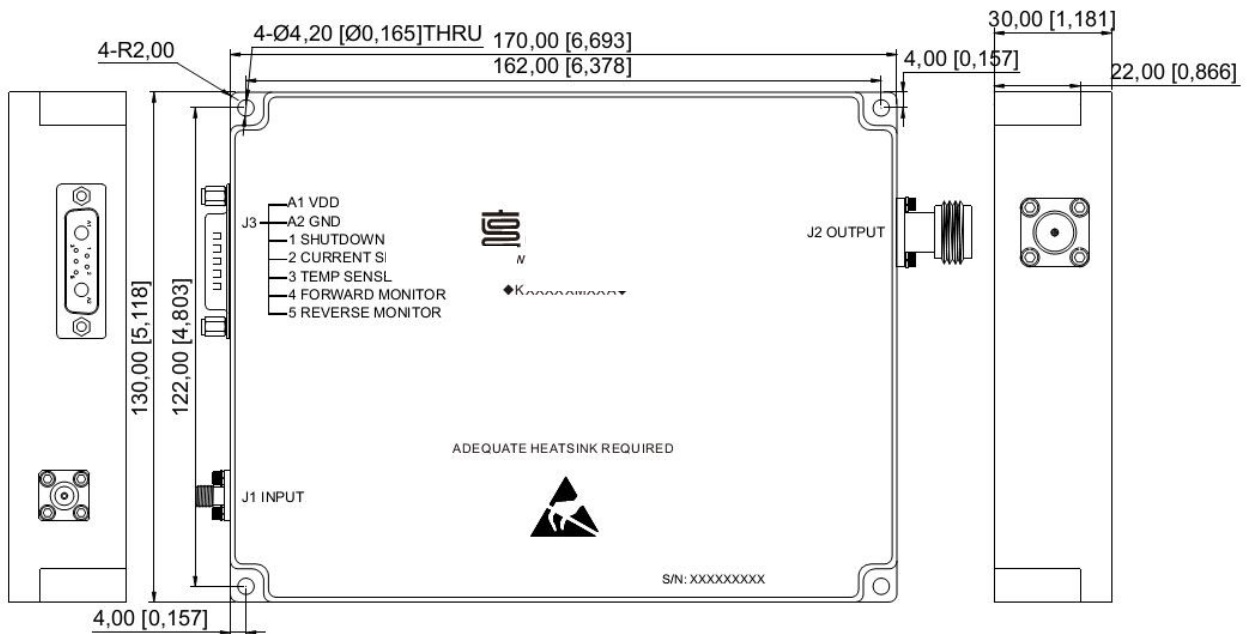
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**DC INTERFACE CONNECTOR**

Pin #	Description	Specifications
A1	VDD	28VDC
A2	GND	Ground
1	SHUTDOWN	Amplifier Disable: TTL Logic High (3.3V) (Internally Pulled-Low)
2	CURRENT SENSE	Analog voltage relative to IDD @ 100mV per Ampere
3	TEMP SENSE	Analog voltage relative to Module's Temperature @ 10 mV/°C
4	NC	
5	NC	

**OUTLINE DRAWING**(All dimensions in mm [inch])



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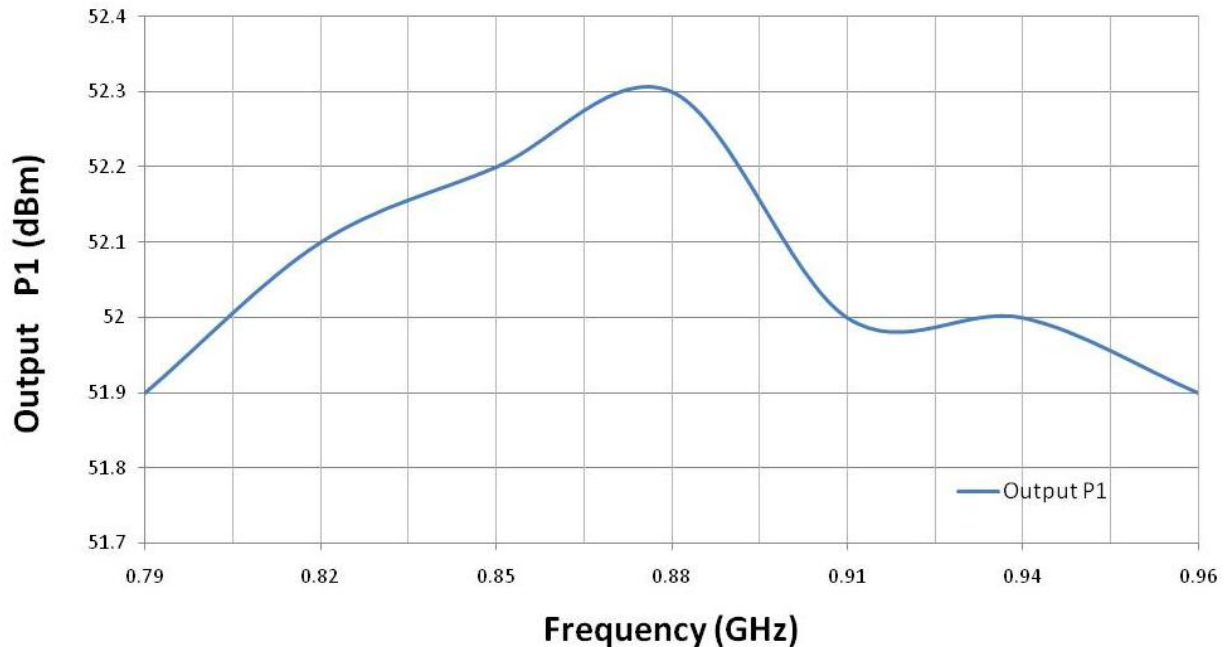
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TYPICAL PERFORMANCE PLOTS (For reference only)



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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