

## 2620-2690MHz/150Watts/Module

Model Number: KN2650M52A

The KN2650M52A is a narrow band high power amplifier operating between 2620 MHz and 2690 MHz and offering a wide dynamic Range with 150 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 narrow band high power RF, MF & HF & VHF linear applications.

### FEATURES:

- Narrow band & High power;
- High Efficiency;
- Great Linearity;
- 50 ohm input/output impedance;
- Small Size & Light Weight

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

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	2620		2690	MHz
Output Power P1dB CW	P1db	150			Watt
Power Gain	G		53		dB
Gain Flatness	ΔG		±0.75		dB
Harmonics @ POUT = 150W	H		-30		dB
Spurious Signals	Spur		-60	-55	us
Input Return Loss	S11			-10	dBc
Operating Voltage	VDC	26	28	30	dBc
Current Consumption @ POUT = 150W	IDD		23		Ω
Current Consumption @ Shutdown	ISD		0.1		Volt
Switching Speed	TON/OFF			2	Amp
RF Input to Output Isolation(During OFF State)	Isolation		70		dBc
In/Output Impedance	Impedance		50		Ω

### MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	170x 130 x 30 [6.9x5.1x1.2]	mm [inch]	Max
Weight	1.3 [2.86]	kg [lbs]	Max
RF Connectors Input	Type-SMA, Female		
RF Connectors Output	Type- N, Female		
DC Interface Connector	Hybrid, D-Sub 7-Pin, Male		
Cooling	External Heatsink Required (Not Supplied)		

### ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		65	°C	
Non-operating Temperature	-45		70	°C	Storage
Relative Humidity (non-condensing)			95	%	

### Absolute Maximum Rating

Input RF drive level without damage	+10 dBm (Max)
Load VSWR @POUT =500W	∞ @all load phase & amplitude for duration of 1 minute; 3:1 @all load phase & amplitude continuous
Over Temperature	85°C @heatsink [restored @65°C]

*Focus on Your Application*

**\*Chengdu KeyLink Microwave Technology Co., Ltd.\***

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Specifications subject to change without notice

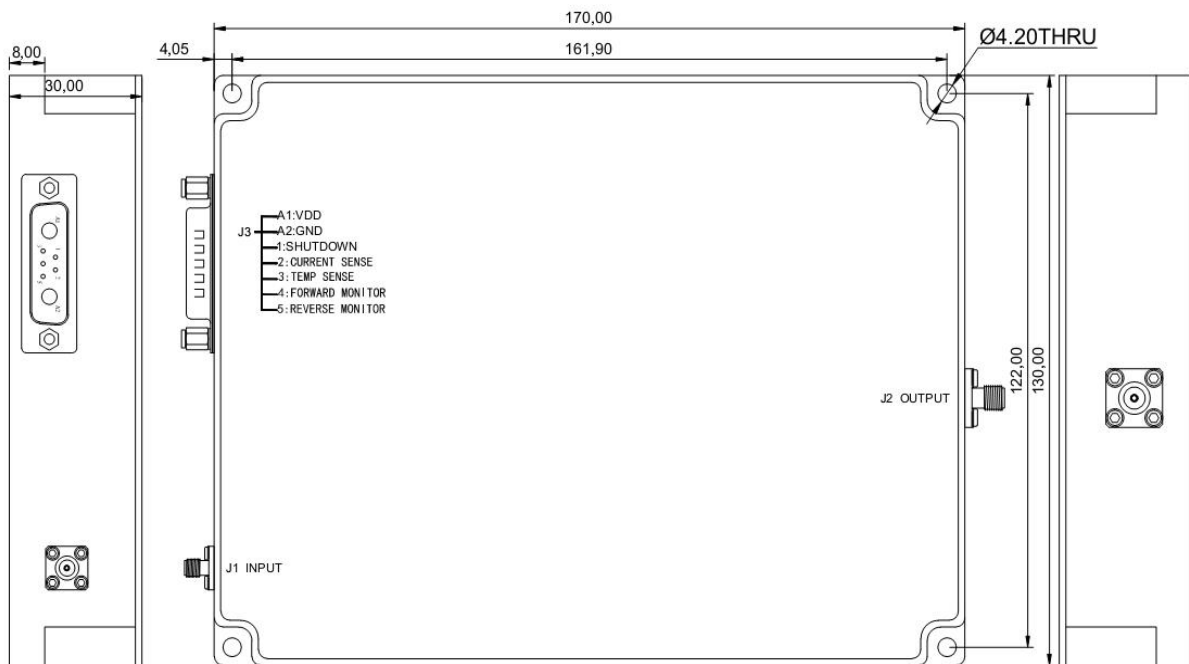
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DC INTERFACE CONNECTOR

Pin #	Description	Specifications
A1	VDD	+28V±2V
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	Temperature Sense	Analog voltage relative to Module's Temperature @10 mV/°C
4	Forward Monitor	Analog voltage relative to forward power level
5	Reverse Monitor	Analog voltage relative to reflected power level

OUTLINE DRAWING (All dimensions in mm)



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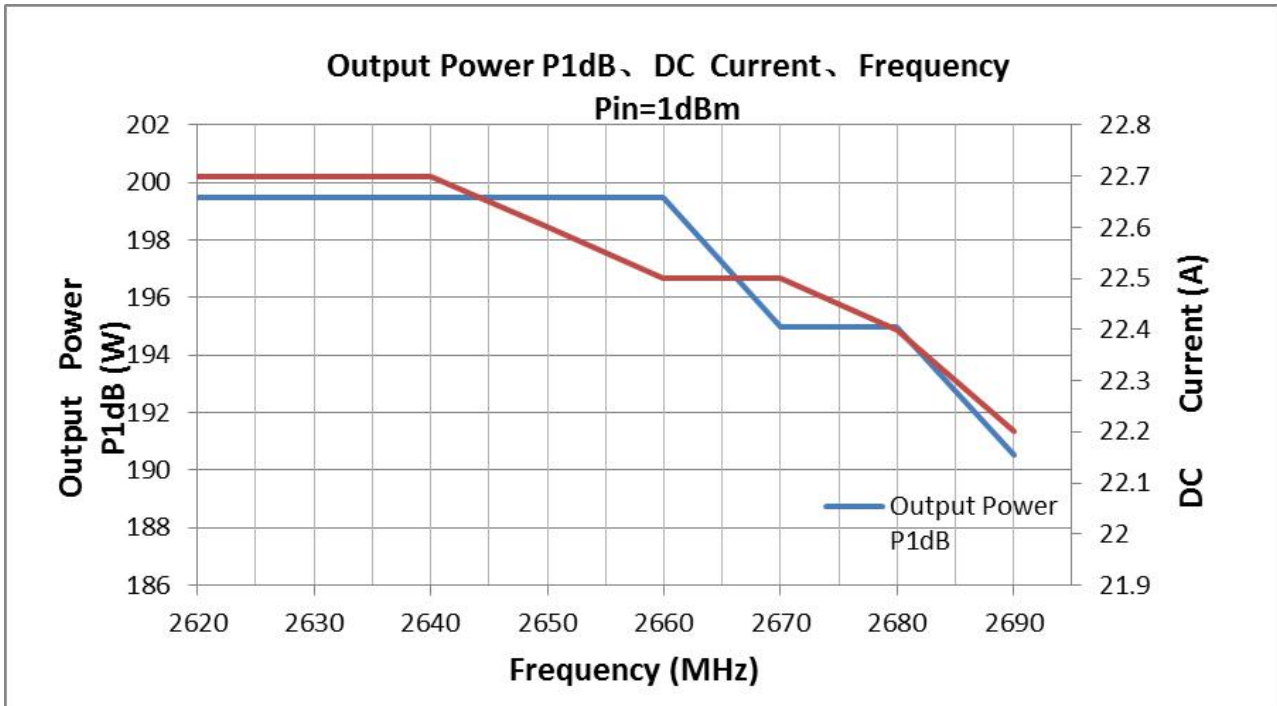
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TYPICAL PERFORMANCE PLOTS (For reference only)



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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