

2000-6000MHz/100Watt/Module

Model Number: KBP2060M50A

The model KBP2060M50A is an S/C band high power pulsed amplifier operating between 2000 MHz and 6000 MHz and pulse width up to 200μs with duty cycle up to 10%. The amplifier provides 2000 Watts peak output power into a 50 Ohm load. The employment of gallium nitride (GaN) 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 high power pulse applications or radar system.

FEATURES:

- Broadband & High Power Pulsed
- Small Size & Light Weight
- Pulse Width&Duty Cycle Protection
- Built-in Control and Protection Circuits

ELECTRICAL SPECIFICATIONS @ +28.0VDC, 25°C, 200μS, 10%, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	2000		6000	MHz
RF Output Power	P _{PK}		100		Watt
Power Gain	G _p		50		dB
Duty Cycle	Duty Cycle		10	20	%
Pulse Width	P _{WIDTH}	2		200	μS
Power Gain Flatness	Δ G _p		±3		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @80W	H		-6		dBc
Spurious Signals @80W	Spur		-55		dBc
Switch On/Off@10-90% Time	TON/ OFF		2	5	μS
In/ Output Impedance	Impedance		50		Ω
Operating Voltage	VDC	26	28	30	Volt
DC Current @80W	IDD		15		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	180x110x25[7.09x4.33x0.98]	mm [inch]	Maximum
Weight	1.5[3.31]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	N, Female		
DC Interface Connector	D-Sub 25-Pin, Male		
Cooling	External Heat sink Required (Not Supplied)		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-20		60	°C	
Non-operating Temperature	-45		85	°C	Storage
Relative Humidity (non-condensing)			95	%	

ABSOLUTE MAXIMUM RATING

Input RF drive level without damage	+10 dBm (Max)
Load VSWR @ POUT =80W	∞ @ all load phase & amplitude for duration of 1 minutes; 3:1 @ all load phase & amplitude continuous
Over Temperature	85°C @ heatsink [restored @ 60°C]

Focus on Your Application

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Specifications subject to change without notice

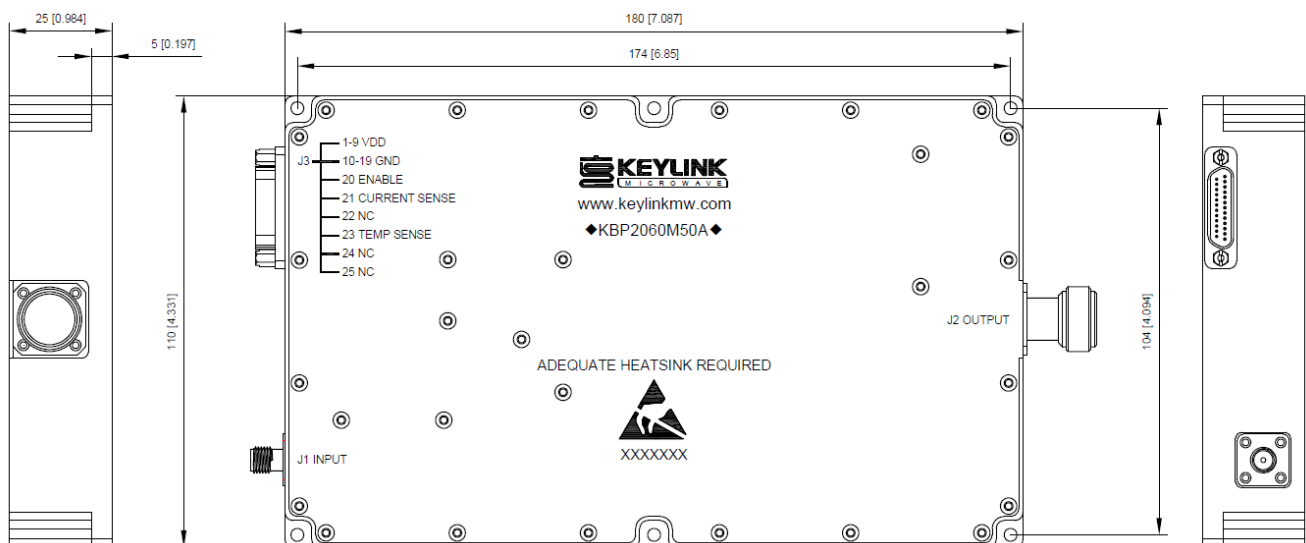
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DC INTERFACE CONNECTOR

Pin #	Description	Specifications
1-9	VDD	28VDC
10-19	GND	Ground
20	ENABLE	Amplifier Enable: TTL Logic High (3.3V) (Internally Pulled-Low)
21	CURRENT SENSE	Analog voltage relative to IDD @ 100mV per Ampere
23	TEMP SENSE	Analog voltage relative to Module's Temperature @ 10mV/°C
22\24\25	NC	No electrical connection

OUTLINE DRAWING (All dimensions in mm [inch])



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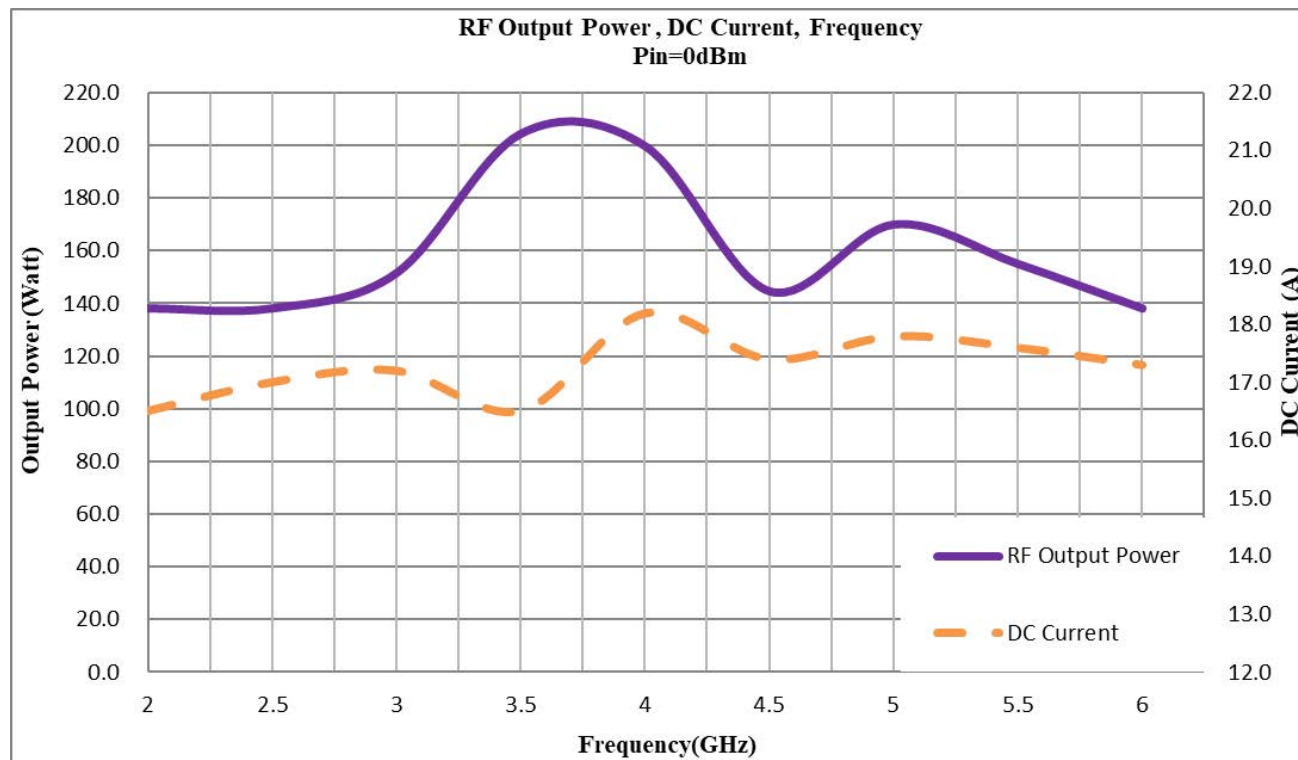
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TYPICAL PERFORMANCE PLOTS (For reference only)@ +28.0VDC, 25°C, 200μS, 10%, 50Ω



Note: Adequate heat sink required.

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