

0.8-6GHz/50Watt/Module

Model Number: KB0860M47A

The model KB0860M47A is a broadband high power amplifier operating between 0.8GHz and 6GHz and offering a wide dynamic Range with 50 Watts typical saturated power. 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 broadband mobile Jamming and band specific high power applications in the L/S/C frequency bands.

FEATURES:

- Broadband & High power
- Small Size & Light Weight
- 50 Ohms Input and Output Matched
- Built-In Control and Protection Circuits

ELECTRICAL SPECIFICATIONS @ +32.0VDC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	0.8		6	GHz
RF Output Power@Pin=0dBm	Psat		50		Watt
Power Gain	Gp		47		dB
Power Gain Flatness	Δ Gp		±3		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics@Psat	H		-6		dBc
Spurious Signals	Spur		-60		dBc
Switch On/Off@10-90% Time,1kHz	T _{ON/OFF}		2		μS
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V _{DC}	28	32	34	Volt
DC Current @50W	I _{DD}		9		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	150x90x25 [5.9x3.54x0.98]	mm [inch]	Maximum
Weight	1.5 [3.3]	kg [lbs]	Maximum
RF Connector Input	SMA, Female		
RF Connector Output	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		60	°C	
Non-operating Temperature	-45		85	°C	Storage
Relative Humidity(non-condensing)	5		95	%	

ABSOLUTE MAXIMUM RATING

Input RF drive level without damage	+5dBm (Max)
Load VSWR @ POUT =25W	∞ @ all load phase & amplitude for duration of 1 minute 3:1 @ all load phase & amplitude continuous
Over Temperature	85°C @ heatsink [restored @ 60°C]

Focus on Your Application

Chengdu KeyLink Wireless Technology Co., Ltd.

>> 5-2, Huidu Headquarters Park, High-Tech(West) Zone, Chengdu, 611731, P. R. China

>> Phone: +86(28)87870761

>> Fax: +86(28)87883266

>> Email: sales@keylinkmw.com

>> www.keylinkmw.com

Specifications subject to change without notice

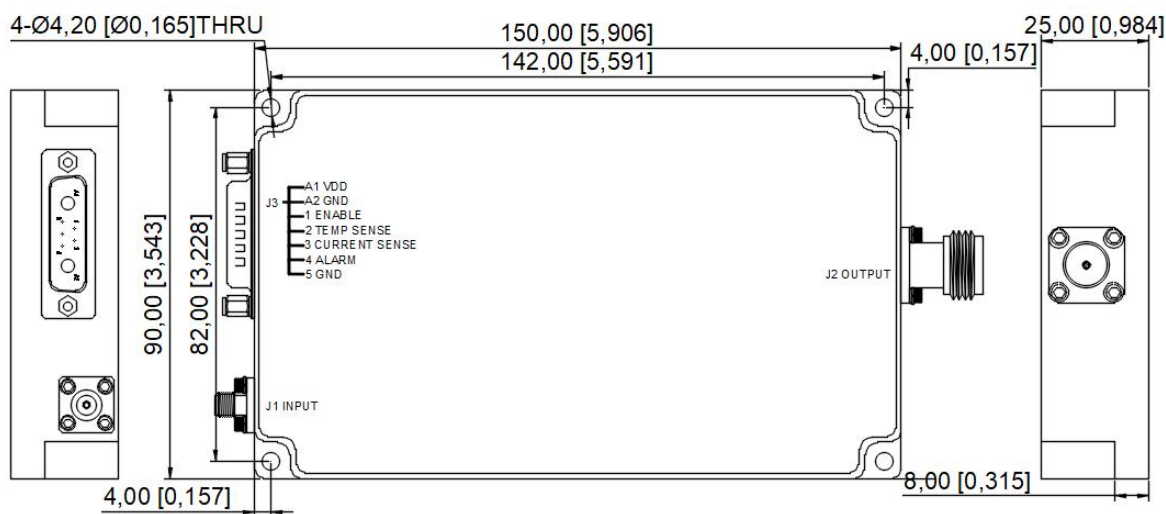
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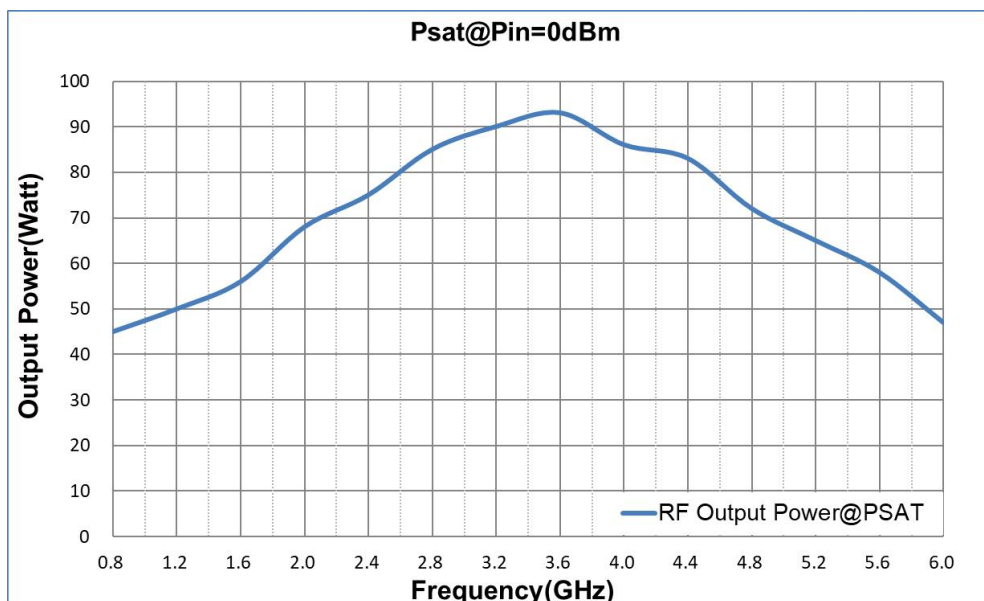
POWER & CONTROL INTERFACE CONNECTOR

Pin #	Description	Specifications
A1	VDD	32VDC
A2	GND	Ground
1	ENABLE	Amplifier Enable: TTL Logic High (3.3V~5V) (Internally Pulled-Low)
2	TEMP SENSE	Analog voltage relative to Module's Temperature @ 0.5V+10 mV/°C
3	CURRENT SENSE	Analog voltage relative to IDD @ 100mV per Ampere
4	ALARM	Amplifier Alarm indicator: Normally TTL Low
5	GND	Ground

OUTLINE DRAWING (All dimensions in mm [inch],dimensional tolerance:±0.2mm)



TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)



Note: Adequate heatsink required.

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