

8000-12000MHz/5Watt/Module

Model Number: KB80120M37A

The model KB80120M37A is a high power amplifier operating between 8000 MHz and 12000 MHz and offering a wide dynamic Range with 5 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 is ideal for broadband high power X Band applications.

FEATURES:

- Broadband & High power;
- High Efficiency;
- Small Size & Light Weight;
- Low Distortion

ELECTRICAL SPECIFICATIONS @ +12.0VDC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	8000		1200	MHz
RF Output Power	P _{out}	5			Watt
Power Gain	G _p		37		dB
Power Gain Flatness	Δ G _p		±2		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @5W	H		-25		dBc
Spurious Signals	Spur		-60		dBc
Switch On/Off@10-90% Time	T _{ON/OFF}		2	5	μS
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC	10	12	13	Volt
DC Current @5W	IDD		5		Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	120x80x22[4.7x3.2x0.9]	mm [inch]	Maximum
Weight	2 [4.4]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	SMA, Female		
DC Interface Connector	D-Sub 9-Pin, Male		
Cooling	External Heatsink Required (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 (Max)
Load VSWR @ P _{OUT} =5W	∞ @ 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

Chengdu KeyLink Microwave Technology Co., Ltd.

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

>> Phone: +86(28)87870761*8708 >> Fax: +86(28)87883266

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

Specifications subject to change without notice

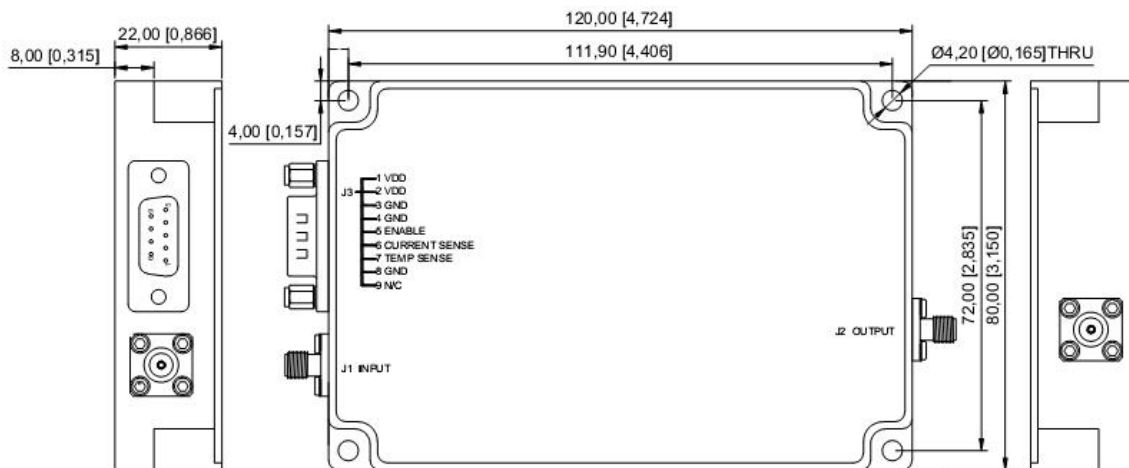
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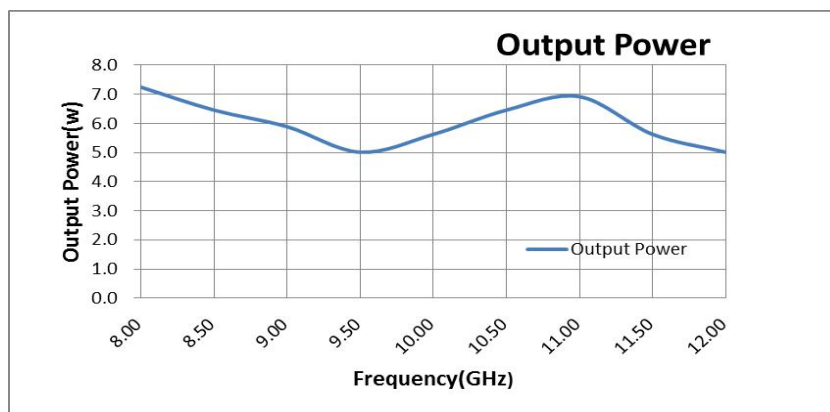
DC INTERFACE CONNECTOR

Pin #	Description	Specifications
1	VDD	12V _{DC}
2	VDD	12V _{DC}
3	GND	Ground
4	GND	Ground
5	ENABLE	Amplifier Enable: TTL Logic High (3.3V) (Internally Pulled-Low)
6	CURRENT SENSE	Analog voltage relative to I _{DD} @ 100mV per Ampere
7	TEMP SENSE	Analog voltage relative to Module's Temperature @ 10 mV/°C
8	GND	Ground
9	NC	No electrical connection

OUTLINE DRAWING (All dimensions in mm [inch])



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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