

6-18GHz/51dBm/Module

Model Number: KB60180M51A

The model KB60180M51A is a multi-octave high power amplifier operating between 6 GHz and 18 GHz and offering a wide dynamic Range with 51 dBm 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 jamming, EMC, test and measurement applications.

FEATURES:

- Solid-state design
- Instantaneous ultra-broadband
- 50ohms input and Output matched
- Built-in protection circuits

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

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	6000		18000	MHz
RF Output Power @P _{in} =0dBm	PsAT		51		dBm
Power Gain @PsAT	Gp		51		dB
Power Gain Flatness	Δ Gp		±2		dB
Input Return Loss	S11		-10		dB
Harmonics @100W	H			-10	dBc
Spurious Signals	Spur		-55		dBc
In/Output Impedance	Impedance		50		Ω
Operating Voltage	VDC	26	28	30	Volt
DC Current	IDD		42	45	Amp

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	260x216x110[10.24x8.5x4.33]	mm [inch]	Maximum
Weight	8 [3.04]	kg [lbs]	Maximum
RF Connectors Input	SMA, Female		
RF Connectors Output	N, Female		
DC Interface Connector	J29A-37ZKP		
Cooling	With heatsink,forced air cooling		

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-20		55	°C	
Non-operating Temperature	-25		65	°C	Storage
Relative Humidity (non-condensing)	5		95	%	

Absolute Maximum Rating

Input RF drive level without damage	+5dBm	Maximum
Load VSWR @ POUT =80W	2.5:1 @ all load phase & amplitude continuous More than 3:1 may cause PA damage	
Over Temperature	80°C @ heatsink	

Focus on Your Application

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Specifications subject to change without notice

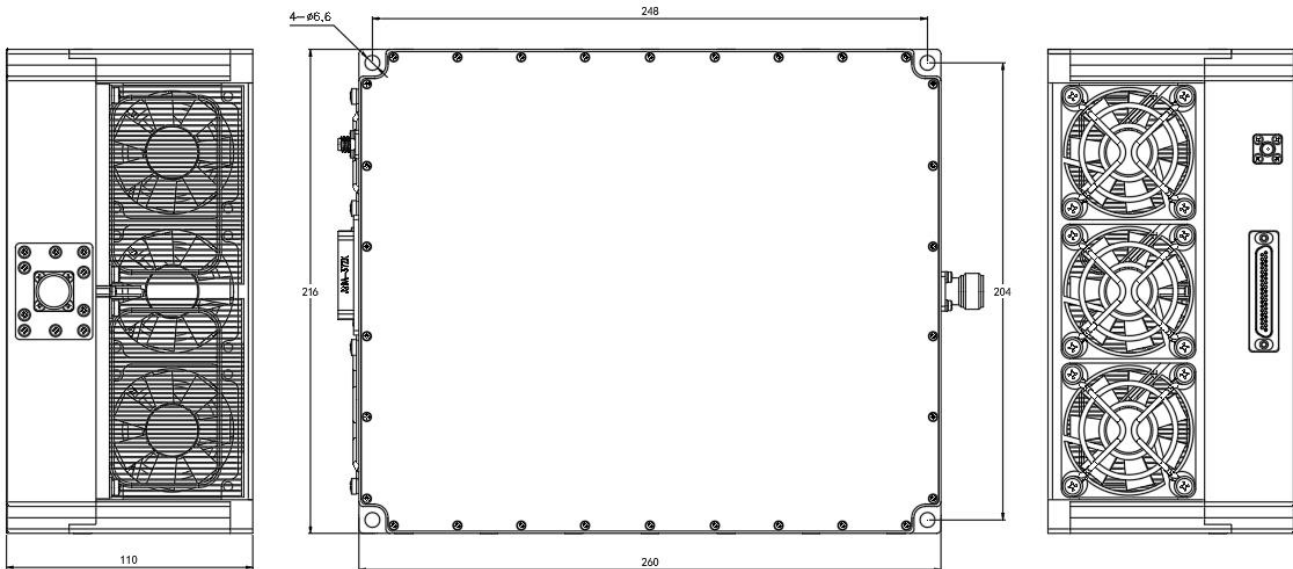
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DC INTERFACE CONNECTOR

1-15	VDD	28 V
15-31	GND	Ground
32	ENABLE	Amplifier Enable: TTL Logic High (3.3V)
33	CURRENT SENSE	Analog voltage relative to IDD @ 60mV per Ampere
34	CURRENT ALARM	TTL Logic High (3.3V)
35	TEMP ALARM	TTL Logic High (3.3V) when temperature was exceed limit value
36-37	GND	Ground

OUTLINE DRAWING [All dimensions in mm]



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