

26.5-40GHz/200Watt/Module

Model Number: KB265400M53A

The model KB265400M53A is a broadband high power amplifier operating between 26.5GHz and 40GHz and offering a wide dynamic range with 200 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 frequency bands.

FEATURES:

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

ELECTRICAL SPECIFICATIONS @ +18VDC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	26.5		40	GHz
RF Output power (Psat) @PW	Psat	200			Watt
RF Output power (Psat) @CW	Psat	100			Watt
Power Gain	Gp	50	53		dB
Power Gain Flatness	Δ Gp			±4	dB
Input Return Loss	S ₁₁			-10	dB
Duty Cycle	Duty Cycle			20	%
Pulse Width	PWidth	7.5	10		us
Power Droop	Droop			0.8	dB
Rise /Fall time (Pulse Performance) (10-90%)	TRISE/FALL			50	ns
In/Output Impedance	Impedance		50		Ω
Operating Voltage	V _{DC}		18		Volt
Average Power Consumption @ Psat	P _D			3200	Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Notes
Dimensions	400x360x180 [15.7x14.1x7.08]	mm [inch]	Maximum
Weight	40 [88.1]	kg [lbs]	Maximum
RF Connector Input	2.92-K		
RF Connector Output	BJ320		
DC Interface Connector	Aero-plug Connector		
Control Interface Connector	J30J-9ZKP, Male		

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	+5 dBm (Max)
Load VSWR @ POUT =100W	3:1 @ all load phase & amplitude continuous More than 4:1 may cause PA damage
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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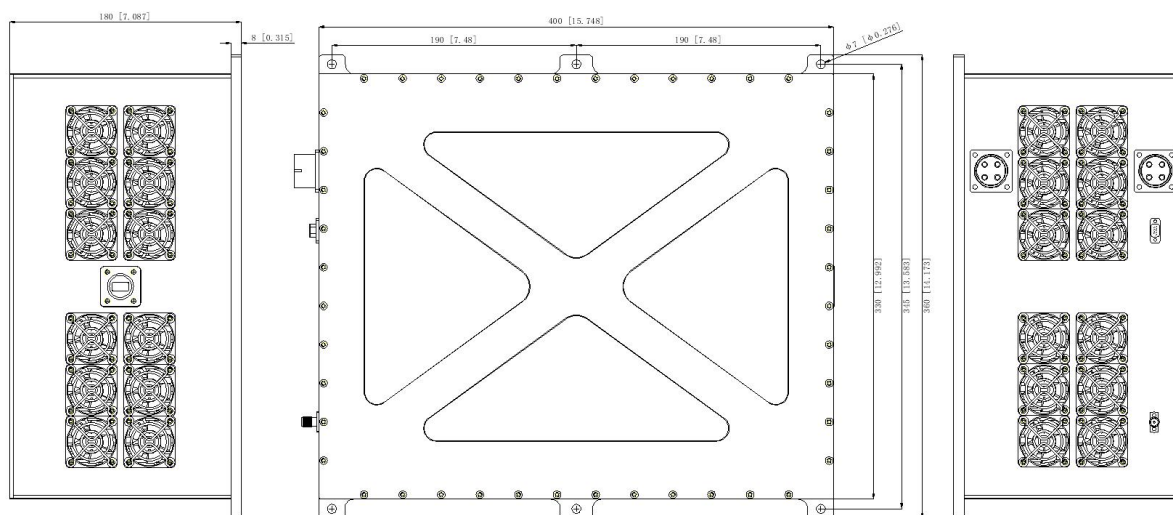
Model Number: KB265400M53A

POWER & CONTROL INTERFACE CONNECTOR

Pin #	Description	Specifications
1,2	VDD	+18VDC
3,4	GND	Ground

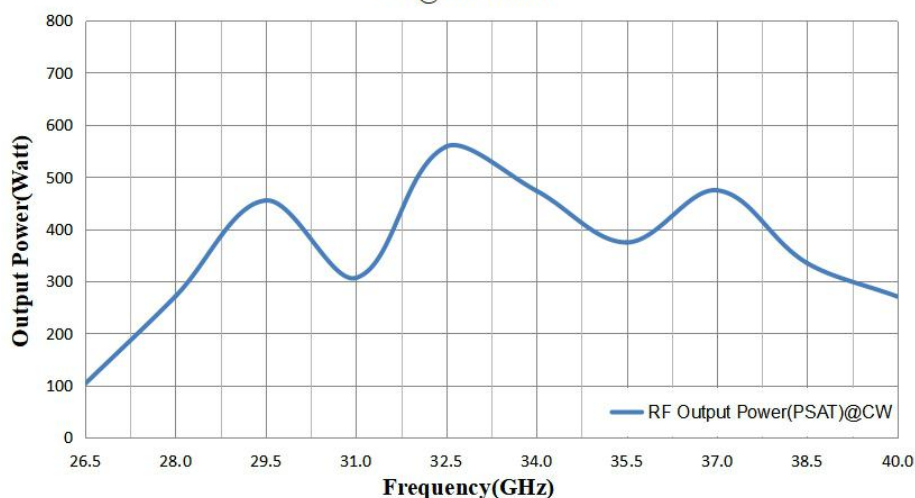
Pin #	Description	Specifications
1	ENABLE	Amplifier Enable:TTL Logic High (3.3V~5V)
2	TEMP SENSE	Analog voltage relative to Module's Temperature @ 0.5V/10 mV/°C
3	TEMP ALARM	Amplifier alarm indicator: Normally TTL Low
4	CURRENT SENSE	Analog voltage relative to IDD @ 50mV per Ampere
5	CURRENT ALARM	Amplifier alarm indicator: Normally TTL Low
6	GND	Ground
7,8,9	NC	Non-electrical Properties

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



TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)

Psat@Pin=0dBm



Note: Adequate heatsink required.

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