

9-10GHz/100Watts/Rack Mount

Model Number: KNP9500S50A

The KNP9500S50A is a rack-mountable unit incorporating a universal voltage power supply and a built in forced air-cooling system. This amplifier subsystem utilizes GaN power device that provides excellent power density, high efficiency, low distortion and wide dynamic range. Due to robust engineering and employment of advanced broadband RF matching networks, combining techniques and qualified components, the amplifier achieves consistent performance with field proven reliability.

FEATURES:

- Digital interface option
- Compact and robust design
- Instantaneous ultra-broadband
- Pulse width/duty cycle protection
- Unconditional stability and ruggedness

ELECTRICAL SPECIFICATIONS @ 220VAC, 25°C, 10%,50Ω System

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	9		10	GHz
RF Output Power	P _{PK}		100		Watt
Duty Cycle	Duty Cycle			10	%
Pulse Width	PWIDTH			10	μS
PRI	PRI			100	μS
Harmonics @ Pout = 80W	H		-35		dBc
Spurious Signals	Spur		-55		dBc
RF Input Power @ Pout =100W	P _{IN}		0		dBm
Input Return Loss	S ₁₁		-10		dB
Rise /Fall time (Pulse Performance)	TRISE/FALL/O		50		nS
Power droop@100W	Droop		0.8		dB
In/Output Impedance	Impedance		50		Ω
Operating Voltage (1-phase)	VDC		220		Volt
Power Consumption @ 100W	P _D		500		Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	Limits
Dimensions (W x H x D) – Bench Top / Rack	482.6 x 88.1x 445 mm (2U)	Max
Weight	30 kg [66 lbs]	Max
RF Connectors Input /Output	In: Type-N, Female; Output: Type-N, Female	
Cooling	Built-in internal forced air cooling system	

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Ambient Temperature	-10		40	°C	
Storage Temperature	-20		45	°C	
Relative Humidity (non-condensing)			95	%	

PROTECTIONS

Input RF drive level without	+5 dBm (Max)
VSWR protection@100W	@ 3:1- PA output power will degrade to a safe operation level, and system will still work. @ >3:1 protection will make system shutdown.
Thermal Overload	Power will Gracefully Degrade, when Ambient Temp >40°C

Focus on Your Application

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without notice

Specifications subject to change

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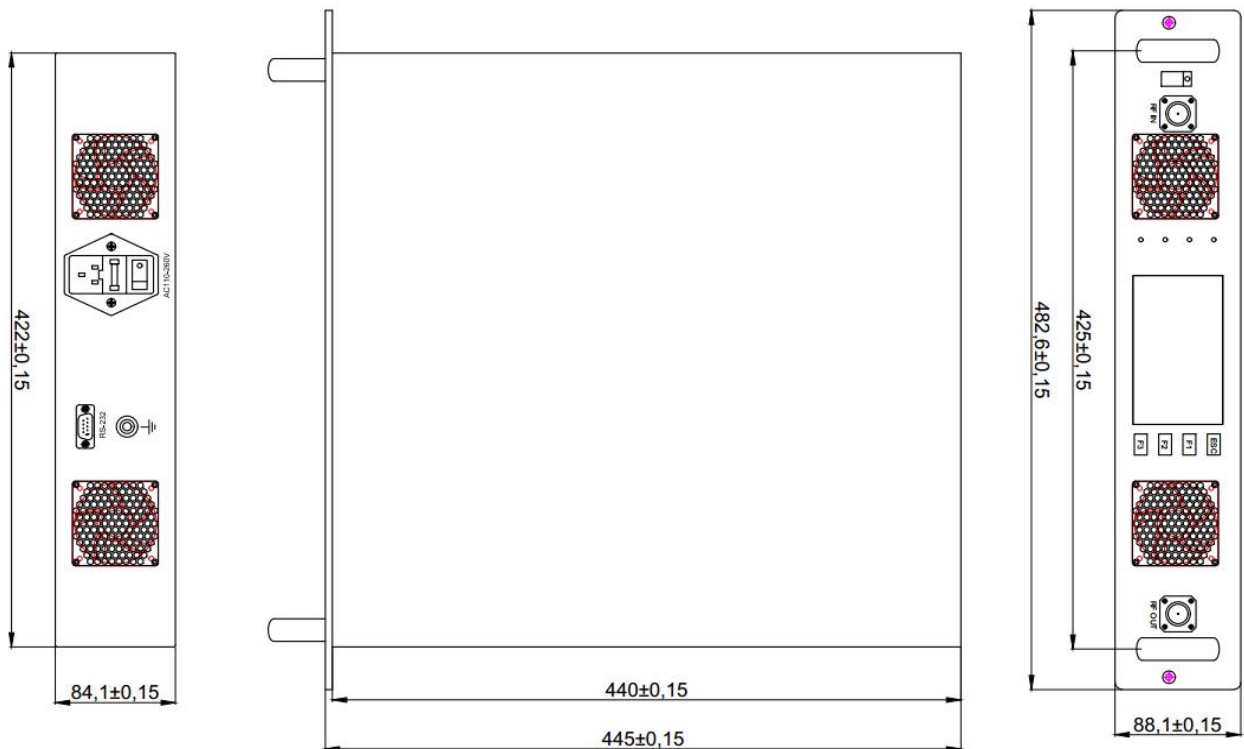
AVAILABLE OPTIONS (Selected options refer to the factory)

	Description	LCD
RS-232	Serial management of device /local operator access	D-Sub 9-position Male
Status Monitor	LCD	Digital Display, including Power indication

I/O CONNECTOR-Monitor Display or RS-232

Pin#	Description	Specifications	LCD
1	ENABLE	Amplifier ENABLE : TTL Logic high(3.3V)	
2	Reserved	Reserved	
3	Reserved	Reserved	
4	Reserved	Reserved	
5	Reserved	Reserved	
6	Reserved	Reserved	
7	Reserved	Reserved	
8	Reserved	Reserved	
9	Reserved	Reserved	

OUTLINE DRAWING (All dimensions in mm)



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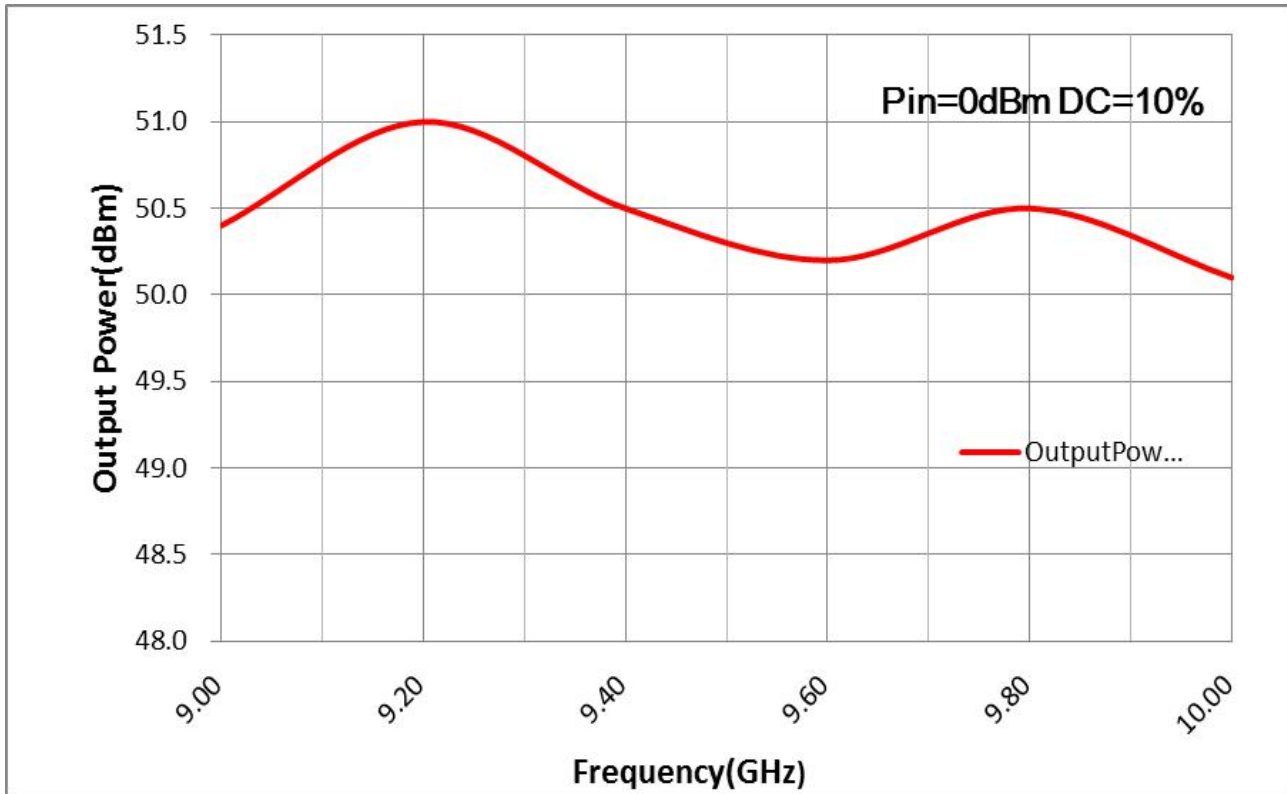
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TYPICAL PERFORMANCE PLOTS (For reference only, 25°C, 10μS, 10%)



Note:

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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