



1-2GHz/300Watts/Rack Mount

The KB1020S55A 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.

Model Number: KB1020S55A

FEATURES:

- Instantaneous ultra broadband
- Suitable for CW, AM, and FM modulation type
- Compact and robust design
- Standard front panel manual gain adjust
- Unconditional stability and ruggedness

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

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	1000		2000	MHz
Output Power CW	Psat		300		Watt
Power Gain @ Psat	G₽		57		dB
Input Power for Rated Psat	Pin		0		dBm
Power Gain Flatness	ΔGp		±2.5		dB
Gain Adjustment Range(Optional)	FGA		20		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @ Pout =150W	Н		-10		dBc
Spurious Signals@ Pout =150W	Spur		-60		dBc
Input/Output Impedance	Impedance		50		dBc
Operating Voltage (1 -phase)	VAC	180	220	250	Volt
Power Consumption @300W CW	PD		3000		Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	
Dimensions (W x H x D) — Bench Top / Rack	482.6 x 221.5 x 605mm [19x8.7x23.8inch] (5U)	Max
Mount	462.0 x 221.5 x 60511111 [19x6.7x25.611611] (50)	IVIAX
Weight	55 kg [132 lbs]	Тур
RF Connectors Input /Output	Type-N, Female / 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	-40		85	°C	
Relative Humidity (non-condensing)			95	%	

PROTECTIONS

Input RF drive level without	+10 dBm	Max	
	@ 3:1- PA output power will degrade to a safe operation level, and system will still		
VSWR protection@150W	work.		
	@ >3:1 protection will make system shutdown.		
Thermal Overload	Power will Gracefully Degrade, when Ambient Temp >40 $^{\circ}\mathrm{C}$		

Focus on Your Application

>> Fax: +86(28)87883266

^{*}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





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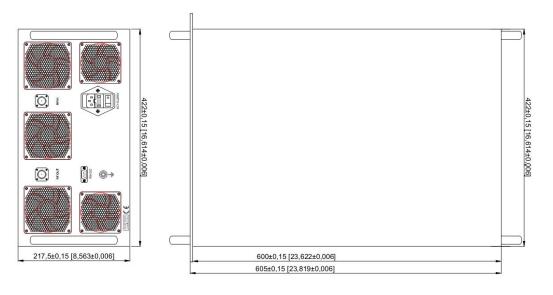
AVAILABLE OPTIONS (Selected options refer to the factory)

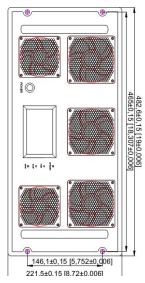
Description		LCD Screen	
Status Monitor	LCD controller	Digital Display, including FWD/REV Power indication	
		(dBm or Watt scale), Standby mode, Fault indication	
RS-232	Serial management of device	D-Sub 9-position Male	
Gain	Ocatacillar Frant Devel	Gain Adjustment	
Adjustment(Optional)	Controller, Front Panel		

I/O CONNECTOR-Monitor Display or RS-232

Pin#	Description	Specifications	Option FGA	LED
1	FWD	Forward detected power		
2	REV	Reverse detected power		
4	Shutdown	Amplifier Disable: TTL Logic Low(<0.7V)		
4	Reserved	Reserved		
5	Reserved	Reserved		
6	Reserved	Reserved		
7	Reserved	Reserved		
8	Reserved	Reserved		
9	Reserved	Reserved		

OUTLINE DRAWING(All dimensions in mm [inch])





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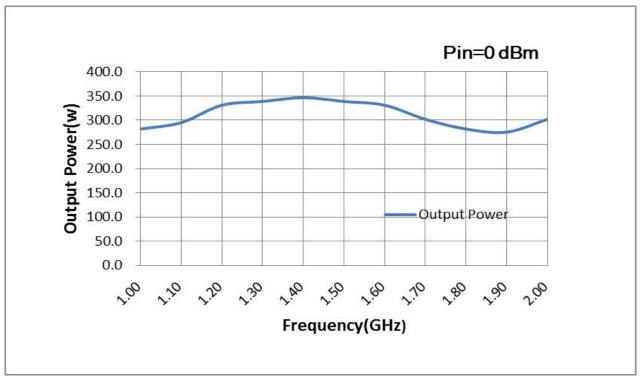




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TYPICAL PERFORMANCE PLOTS(For reference only)



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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