

1-3GHz/500Watts/Rack Mount

Model Number: KB1030S57A

The KB1030S57A 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:

- 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		3000	MHz
Output Power CW	P _{SAT}		500		Watt
Power Gain @ P _{SAT}	G _P		57		dB
Input Power for Rated P _{SAT}	P _{IN}		0		dBm
Power Gain Flatness	ΔG		±2.5		dB
Gain Adjustment Range(optional)	FGA		20		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @ P _{OUT} =200W	H		-15		dBc
Spurious Signals@ P _{OUT} =200W	Spur		-55		dBc
Input/Output Impedance	Impedance		50		dBc
Operating Voltage (single -phase)	VAC	180	220	240	Volt
Power Consumption @ 400W CW	P _D		5000		Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	Limits
Dimensions (W x H x D) – Bench Top / Rack Mount	482 x221.5 x605 mm [19x8.7x23.8inch] (5U)	Max
Weight	50 kg [110 lbs]	Typ
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 damage	+10 dBm	Max
VSWR protection@200W	@ 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	

AVAILABLE OPTIONS (Selected options refer to the factory)

Description	LCD Screen
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Focus on Your Application

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Specification subject to change without notice

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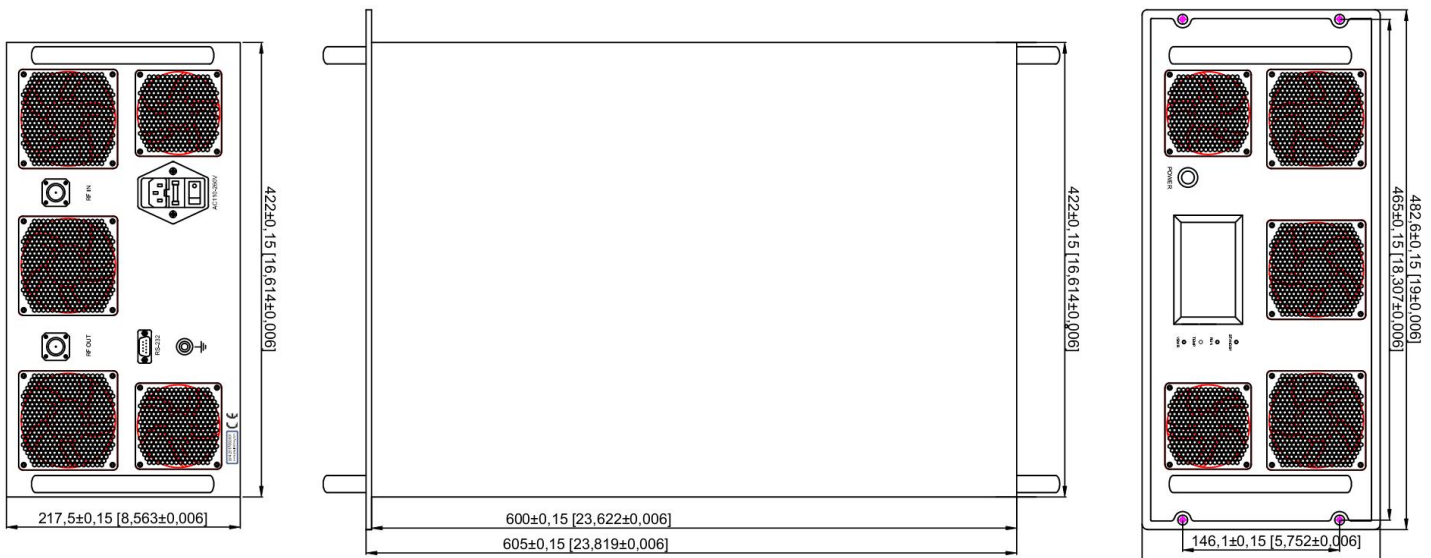
Status Monitor	LCD controller	Digital Display, including FWD/REV Power indication (dBm or Watt scale), Standby mode, Fault indication
RS-232	Serial management of device /local operator access	D-Sub 9-position Male
Gain Adjustment(optional)	Controller, Front Panel	Gain Adjustment

I/O CONNECTOR-Monitor Display or RS-232

Pin#	Description	Specifications	Option FGA	LED
1	FWD	Forward detected power		
2	REV	Reverse detected power		
3	VVA	Gain control: Analog Voltage Range 0-5V Gain Control: 0V= Max. Attenuator, 5V=Min		
4	Shutdown	Amplifier Disable: TTL Logic Low(<0.7V)		
5	Reserved	Reserved		
6	Reserved	Reserved		
7	Reserved	Reserved		
8	Reserved	Reserved		
9	Reserved	Reserved		

All dimensions in mm [inch]

OUTLINE DRAWING



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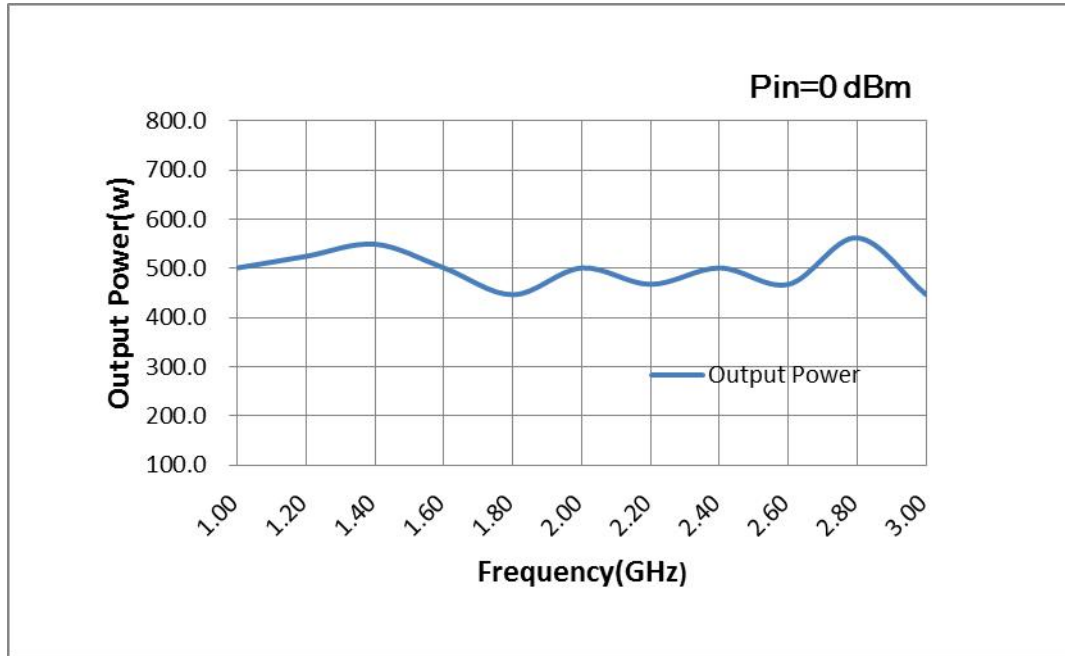
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TYPICAL PERFORMANCE PLOTS(For reference only)



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 Key Link sales team if you have any question.

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