

80-1000MHz/300Watts/Module

Model Number: KB00810S55B

The KB00810S55B is a rack-mountable unit incorporating a universal voltage power supply and a built in forced air-cooling system. This amplifier subsystem utilizes LDMOS 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	80		1000	MHz
Output Power CW Psat	Psat		300		Watt
Power gain	PG		55		dB
Input Return Loss	S ₁₁			-10	dB
Harmonics @ P _{OUT} =150W	H		-10		dBc
Spurious Signals	Spur		-55		dBc
Operating Voltage (Single-phase)	VDC		220		Volt
Power Consumption @300W CW	PD		4200		Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	Limits
Dimensions (W x H x D) – Bench Top / Rack Mount	Power Amplifier Chassis: 482.6 x 221.5 x 545 mm (5U) Power Supply Chassis: 482.6 x 88 x 445 mm (2U)	Max
Weight	50 kg [110 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	-15		45	°C	
Relative Humidity (non-condensing)			95	%	

PROTECTIONS

Input RF drive level without damage	+5 dBm (Max)
VSWR protection@150W	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 >60°C

Focus on Your Application

Chengdu KeyLink Wireless Technology Co., Ltd.

>> 5-2, Huidu Headquarters Park, High-Tech(West) Zone, Chengdu, 611731, P. R. China

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Specifications subject to change without notice

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AVAILABLE OPTIONS (Selected options refer to the factory)

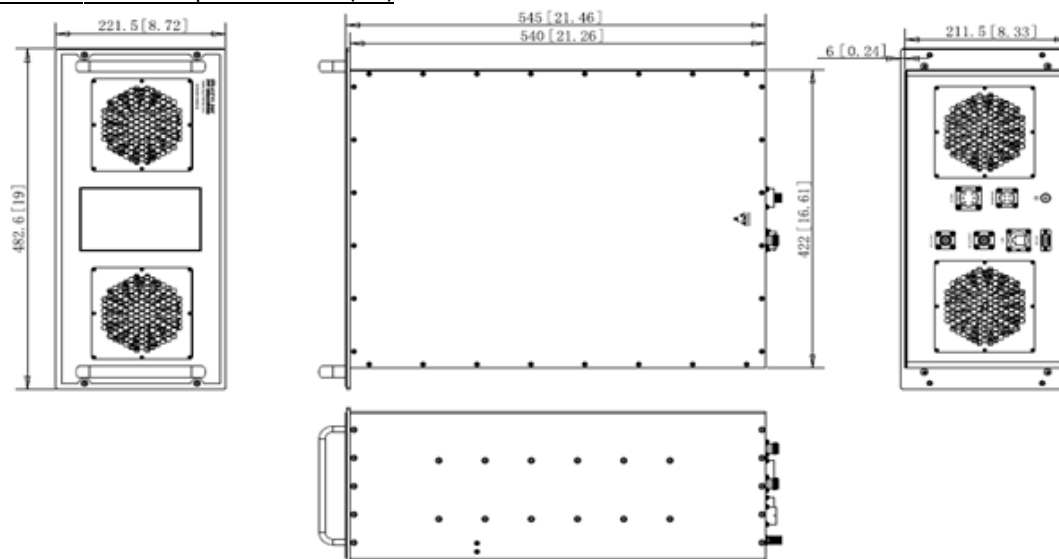
	Description	LCD
Status Monitor	LCD Controller	Digital Display, including FWD/REV Power indication (dBm or Watt scale), Standby mode, Fault indication
LAN	Serial management of device	Internet access

LAN

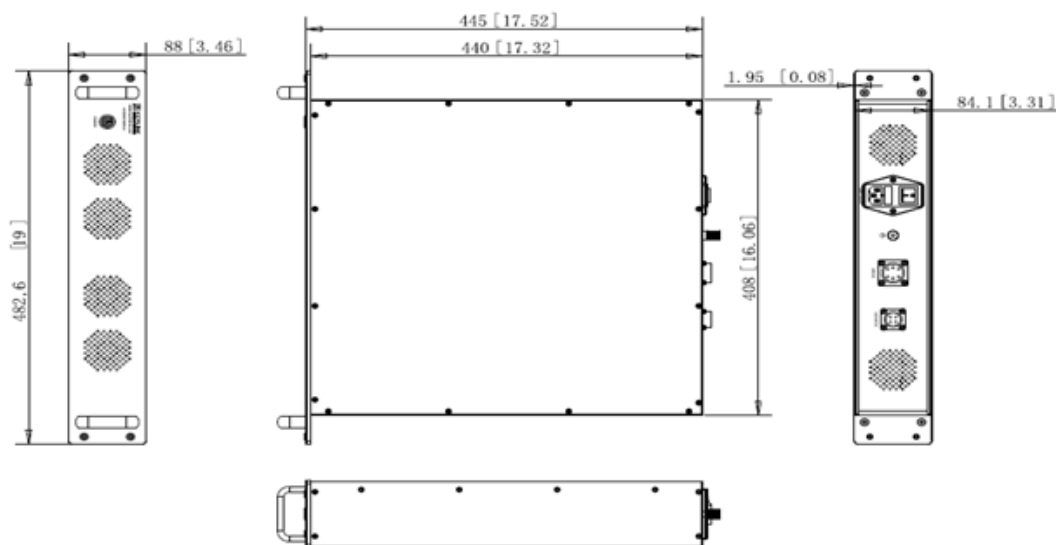
Description	Specifications	Option FGA	LED
FWD	Forward detected power		
REV	Reverse detected power		

OUTLINE DRAWING (All dimensions in mm)

PART 1: Power Amplifier Chassis (5U)



PART 2: Power Supply Chassis (2U)



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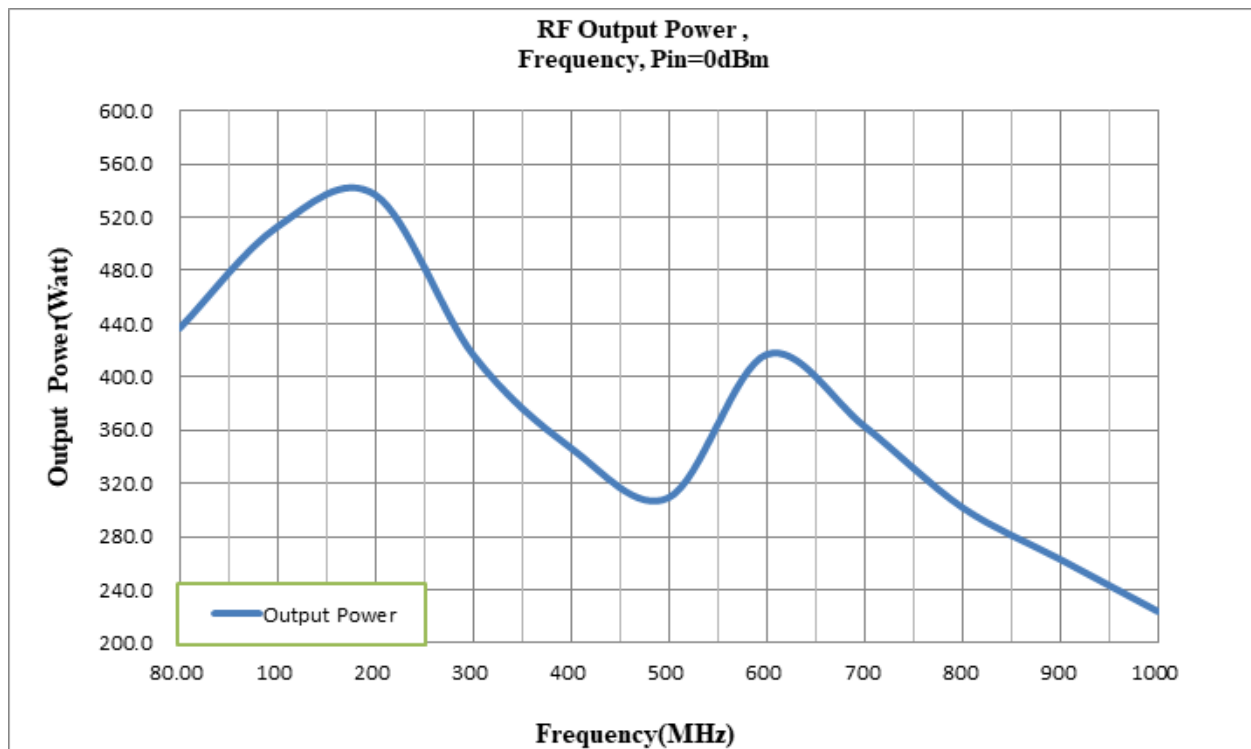
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TYPICAL PERFORMANCE PLOTS (For reference only)



Note:

1. Adequate heatsink required.
2. 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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