

## 1.2-1.4GHz/500Watts/Rack Mount

*Model Number: KNP1300S57A*

The KNP1300S57A 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
- Digital interface option
- Compact and robust design
- Pulse width/duty cycle protection
- Unconditional stability and ruggedness

### ELECTRICAL SPECIFICATIONS @ 220VAC, 25°C, 100μS, 10%,50Ω System

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	1200		1400	MHz
RF Output Power	P <sub>PK</sub>		500		Watt
Duty Cycle	Duty Cycle		10	15	%
Pulse Width	PWIDTH			100	μS
PRI	PRI	200		1000	μS
Harmonics @ Pout = 250W	H		-20		dBc
Spurious Signals	Spur		-55		dBc
RF Input Power @ Pout =500W	PIN		0		dBm
Input Return Loss	S11		-10		dB
Rise /Fall time (Pulse Performance)	TRISE/FALL/OFF(10-90)		50		nS
Power droop@ PW=10μS, DC=10%	Droop		1		dB
In/Output Impedance	Impedance		50		Ω
Operating Voltage (1-phase)	VDC		220V		Volt
Power Consumption @500W	PD		1200		Watt
Work Pattern@Standby		Quiet Mode			

### MECHANICAL SPECIFICATIONS

Parameter	Value	Limits
Dimensions (W x H x D) – Bench Top / Rack Mount	482.6 x88.1 x 445 ( 2U )	Max
Weight	15 kg	Max
RF Connectors Input /Output	In: Type-N, Female; Output: In: Type-N,	
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	%	

*Focus on Your Application*

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*Specifications subject to change without notice*

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### PROTECTIONS

Input RF drive level without damage	+5 dBm (Max)
VSWR protection@250W	@ 5:1 - 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
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	TEMP SENSE	Analog voltage relative to temperature@10mV /°C	
3	Reserved	Reserved	
4	Reserved	Reserved	
5	Reserved	Reserved	
6	Reserved	Reserved	
7	RS232+	Transmit data-TxD	
8	RS232-	Transmit data-R x D	
9	GND	GND	

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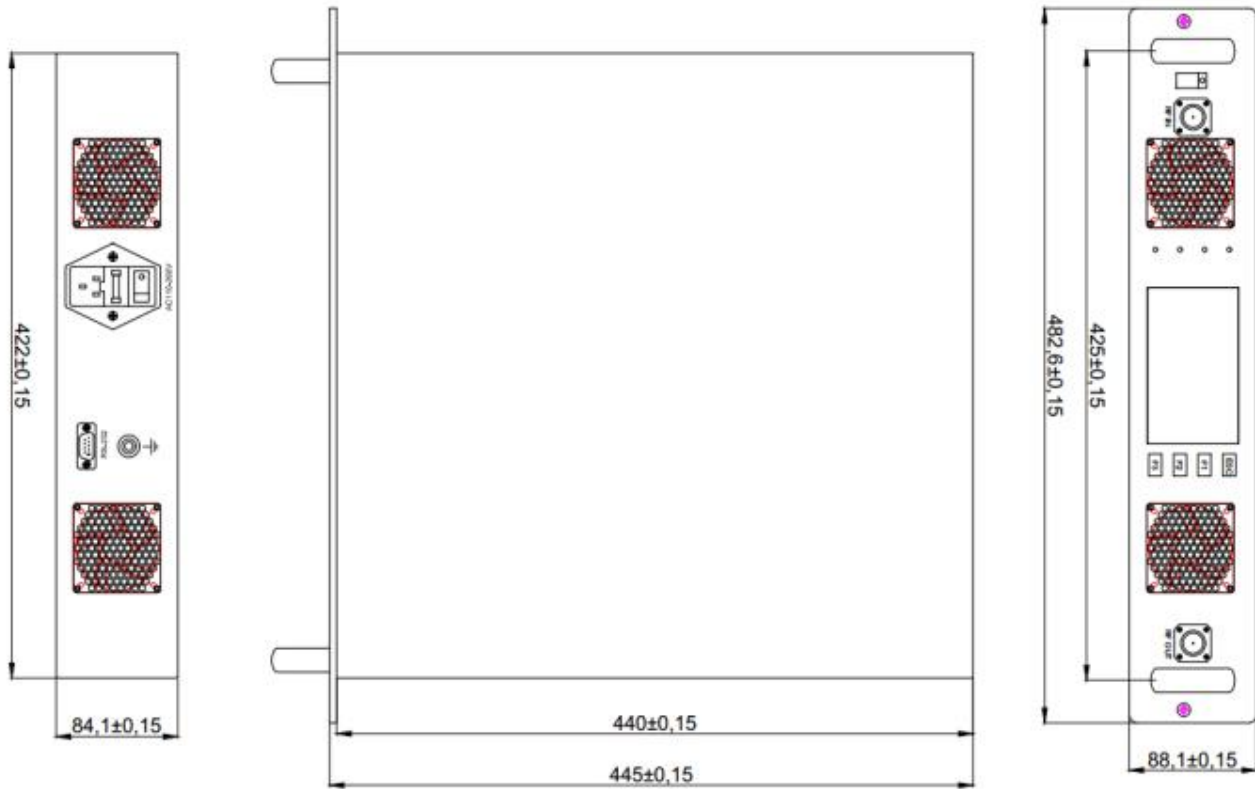
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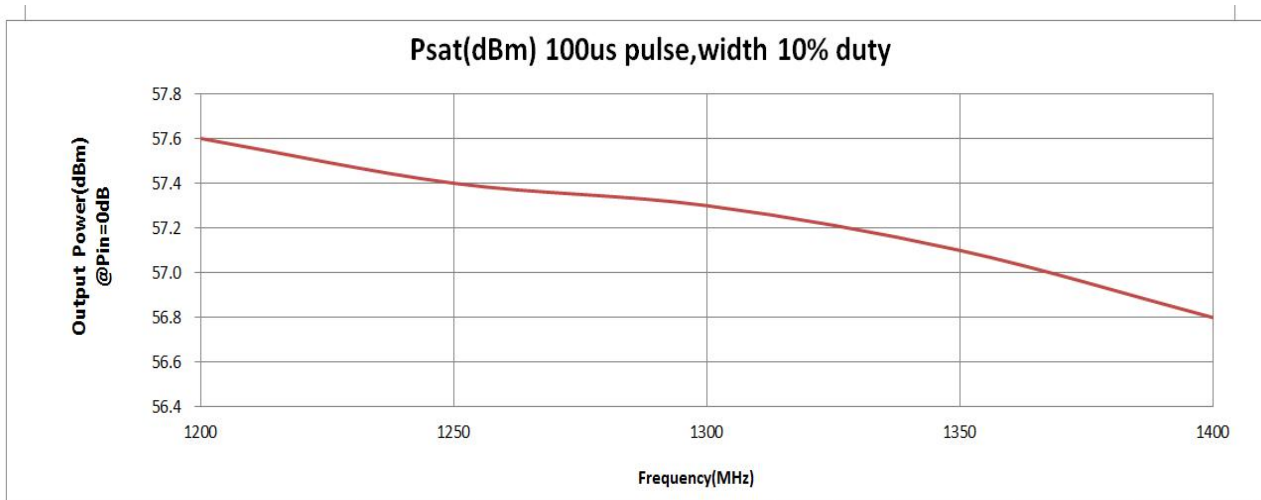
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OUTLINE DRAWING (All dimensions in mm)



TYPICAL PERFORMANCE PLOTS



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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