

1.2-1.4GHz/500Watts/Rack Mount

The MCWP1300S57A is a rack-mountable unit incorporating a universal voltage power supply and a built in forced aircooling 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 achieves amplifier consistent performance with field proven reliability.

Model Number: MCWP1300S57A

FEATURES:

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

ELECTRICAL SPECIFICATIONS @	220VAC, 2	25°C, 100μS	, 10%,50Ω	System	

Parameter	Symbol	Minimum	Typical	Maximum	Units
Operating Frequency	BW	1200		1400	MHz
RF Output Power	Ррк		500		Watt
Duty Cycle	Duty Cycle		10	15	%
Pulse Width	Pwidth			100	μS
PRI	PRI	200		1000	μS
Harmonics @ Pout = 250W	н		-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	%	

>>Mobile/WhatsApp:+86-181 8078 9271

>>Tel:+86(28)87872669*0

^{*}Chengdu Microwave Technology Co., Ltd*

>>1st Floor, Building 3#, Huidu Science Park, No.5 Xixin Avenue, High-tech West District, Chengdu, China 611731

>>E-mail: info@cdmicrowave.com

>>Fax:+86(28)87882925 >>www.cdmicrowave.com



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PROTECTIONS

Model Number: MCWP1300557A

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 $^\circ\!{\rm C}$

AVAILABLE OPTIONS (Selected options refer to the factory)

	Description	LCD
WAN(standard Ethernet)	Serial management of device	Internet access
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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>>Tel:+86(28)87872669*0 >>Fax:+86(28)87882925 >>Mobile/WhatsApp:+86-18180789271
>>E-mail: info@cdmicrowave.com >>www.cdmicrowave.com

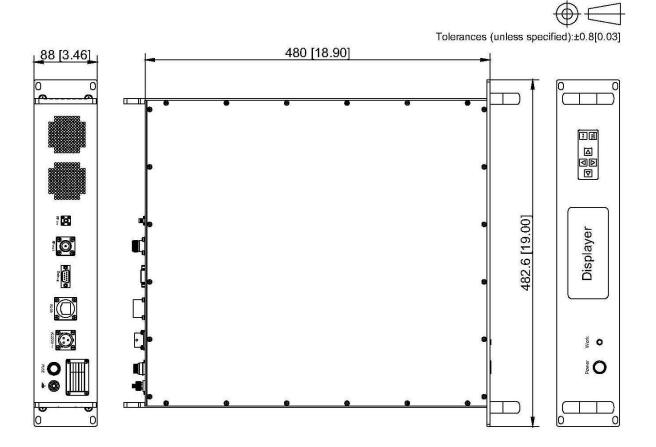




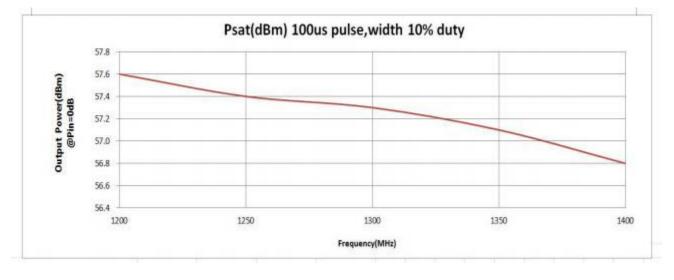
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OUTLINE DRAWING (All dimensions in mm)

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TYPICAL PERFORMANCE PLOTS



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