泰莱微波
Talent Microwave

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Solid State High Power Amplifier Systems

90-140GHz/23dB Gain/23dBm Psat/220V AC Model: TLPA90G140G-23-23-BC

TLPA90G140G-23-23-BC is a solid state high power amplifier systems provides high output power and high gain across the 90 to 140 GHz frequency range. The amplifier features a built-in 220V power supply, making it easy to use in most lab environments. This model features thermal self protection, preventing damage to the amplifier and providing added reliability.

Features:

- Frequency range: 90-140GHz
- Gain: 23dB Min
- Psat Output Power: 23dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	90		140	GHz
Power Gain	GP	23			dB
Output Psat	Psat	23			dBm
Spurious	Spur			-50	dBc
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss			100	W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-08/UG-387/U/WR-08/UG-387/U	
Communication Connector	DB9/RJ45	
Front Panel LCD Screen Display	5 inch LCD Screen Display	
Size	19 Inch 3U	mm
Weight	≤30	Kg

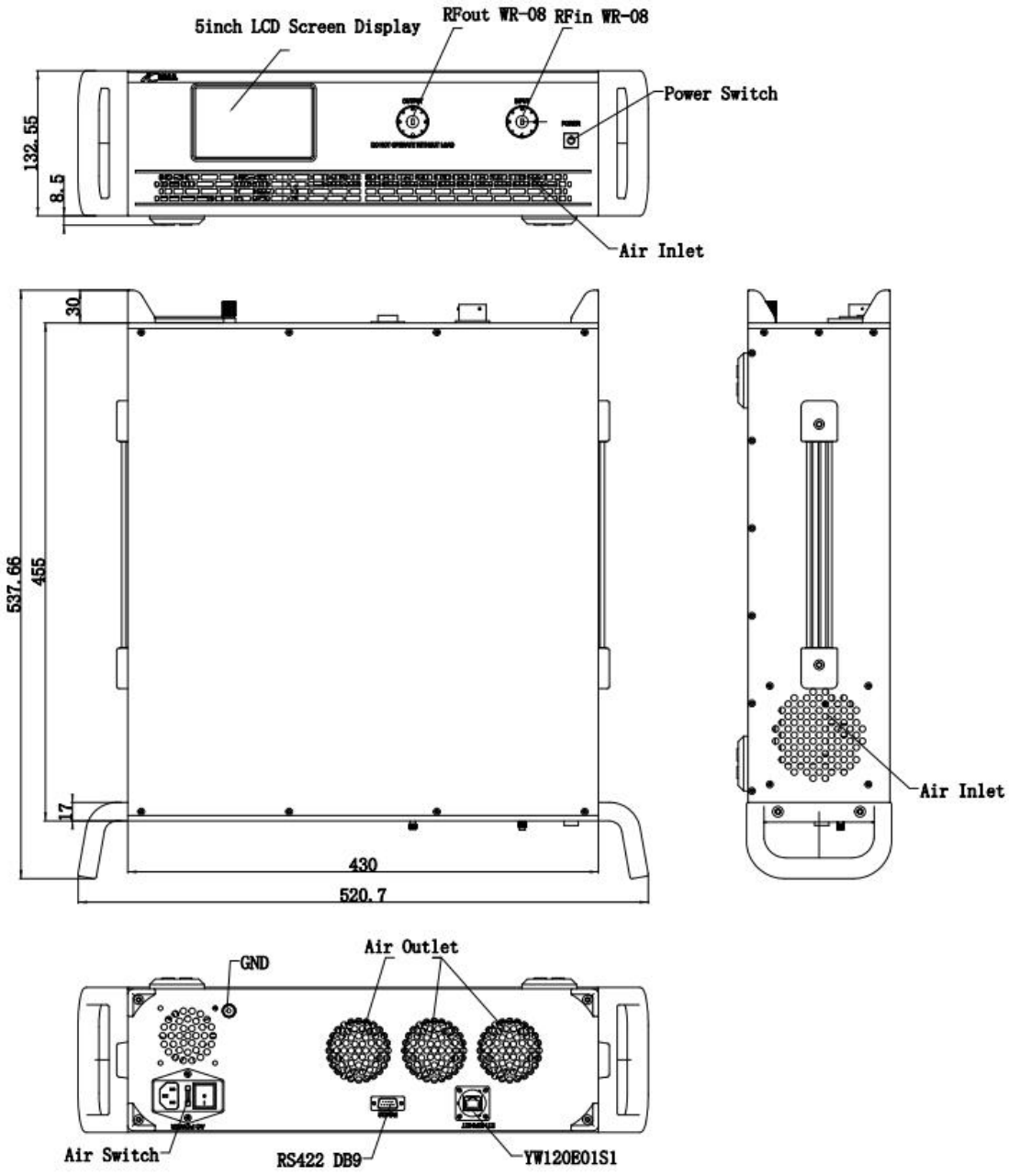
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Absolute Maximum Ratings:

Parameter	Value
RF Input Power	0 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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Key Features:

Parameter	Advantages
Control functions	1, Power setting on/off 2, ALC automatic level control
Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
Remote control	RS422/Ethernet
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+50	℃
Non-operating Temperature*	-30		+60	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Base Number	Description	Revision
TLPA90G140G-23-23-BC	Solid State High Power Amplifier Systems 90-140GHz,Gain:23dB,Psat:23dBm,220V AC,Built in Fan Cooling	Rev.1.0