泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Solid State High Power Amplifier Systems

0.5-6GHz/56dB Gain/54dBm Psat/220V AC

Model: TLPA0.5G6G-56-54-BC

TLPA0.5G6G-56-54-BC is a solid state high power amplifier systems provides high output power and high gain across the 0.5 to 6 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: 0.5-6GHz
- Gain: 56dB Min
- Psat Output Power: 54dBm 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		0.5-6		GHz
Power Gain	GP	56			dB
Gain flatness	ΔGL		±3		dB
Output Psat	Psat	54			dBm
Output P1dB	P1dB		49		dBm
Spurious	Spur			-60	dBc
Harmonics	HAM		-10		dBc
Input VSWR	VSWRin			2	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss			3500	W
Impedance	I/O-IMP		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Forward/Reverse Coupling	SMA Female/ SMA Female	
Communication Connector	DB9/RJ45	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch 5U	mm
Weight	≤45	Kg

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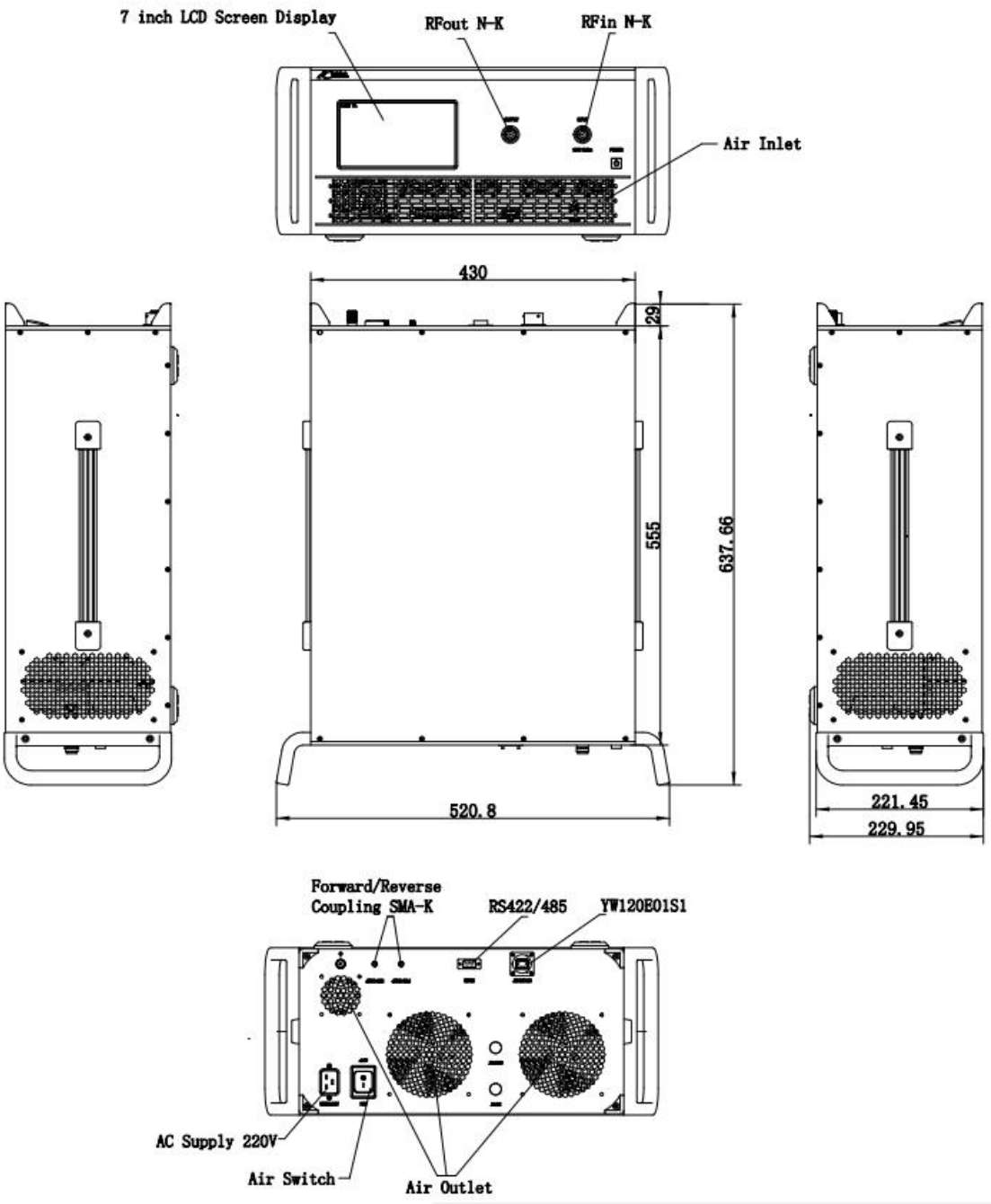
Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



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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		+40	℃
Non-operating Temperature*	-30		+50	℃
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:

ase Number	Description	Revision
TLPA0.5G6G-56-54-BC	Solid State High Power Amplifier Systems 0.5-6GHz,Gain:56dB,Psat:54 dBm,220V AC,Built in Fan Cooling	Rev.1.1

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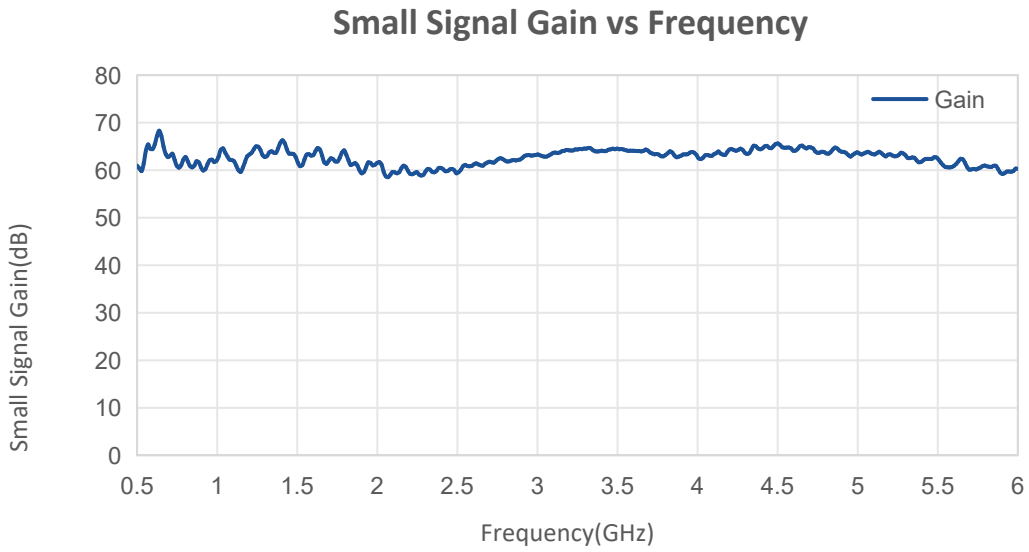
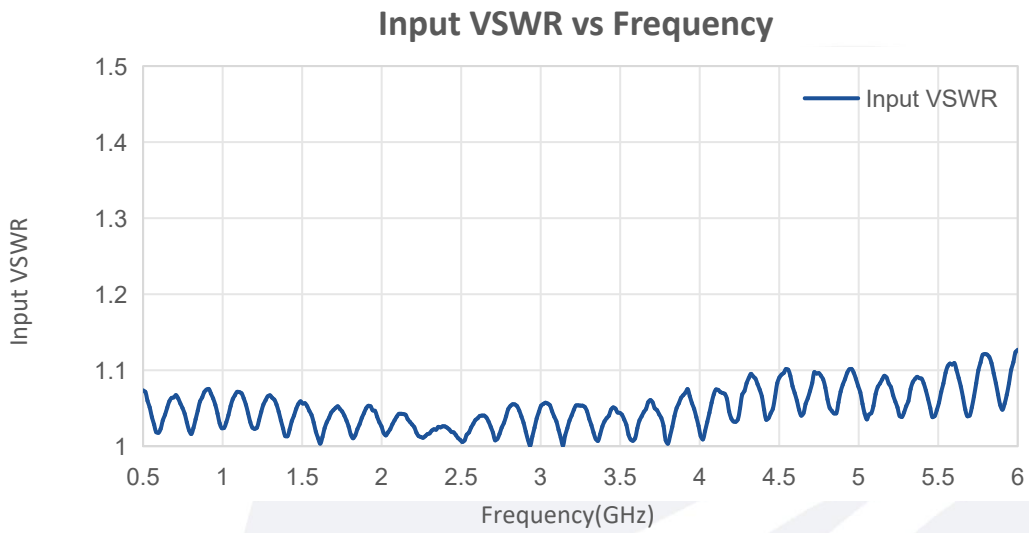
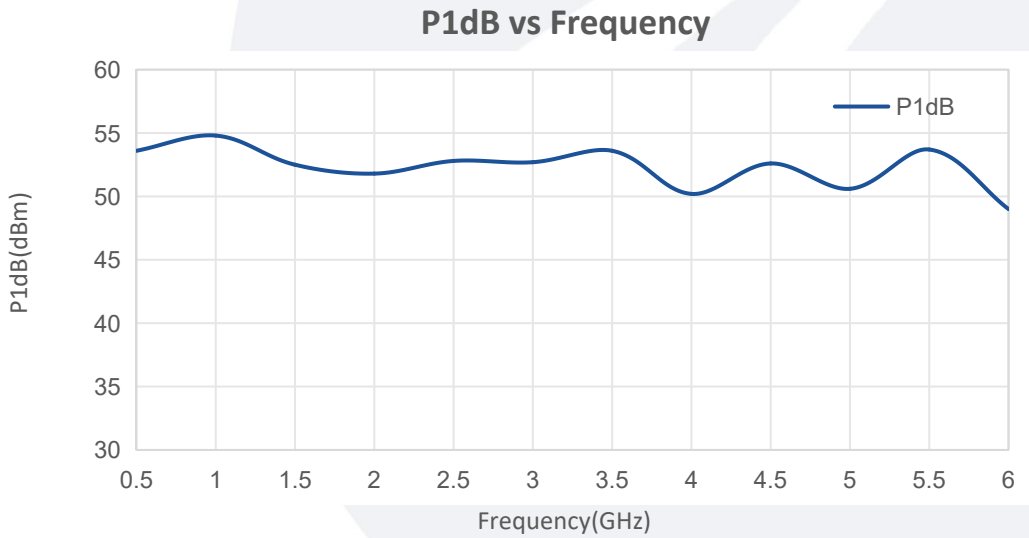
Typical Performance Data:







Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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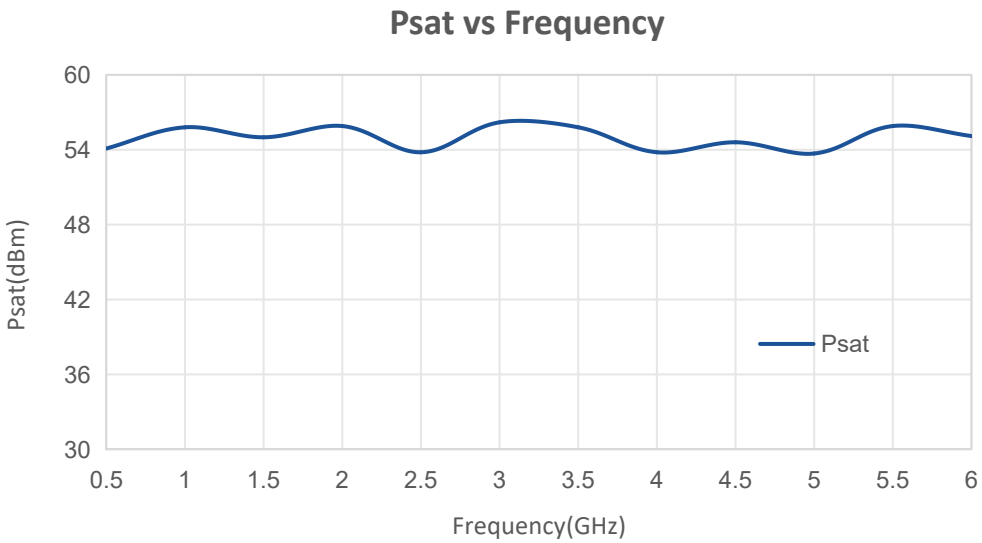

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