泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Solid State High Power Amplifier Systems

0.5-6GHz /43dB Gain/43 dBm Psat/220V AC

Model: TLPA0.5G6G-43-43-BC

TLPA0.5G6G-43-43-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:

- Wide Band: 0.5-6GHz
- Gain: 43dB Min
- Psat Output Power:43dBm 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	43			dB
Gain flatness	ΔGL		±3.5		dB
Output P1dB	P1dB	36	38		dB
Output Psat	Psat	43	44		dBm
Spurious@Pout=43dBm	Spur			-50	dBc
Harmonics@Pout=43dBm	HAM			-10	dBc
Input VSWR	VSWRin			2	:1
AC Voltage	Vac		220		V AC
Impedance	I/O-IMP		50		Ohms

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Mechanical Specifications:

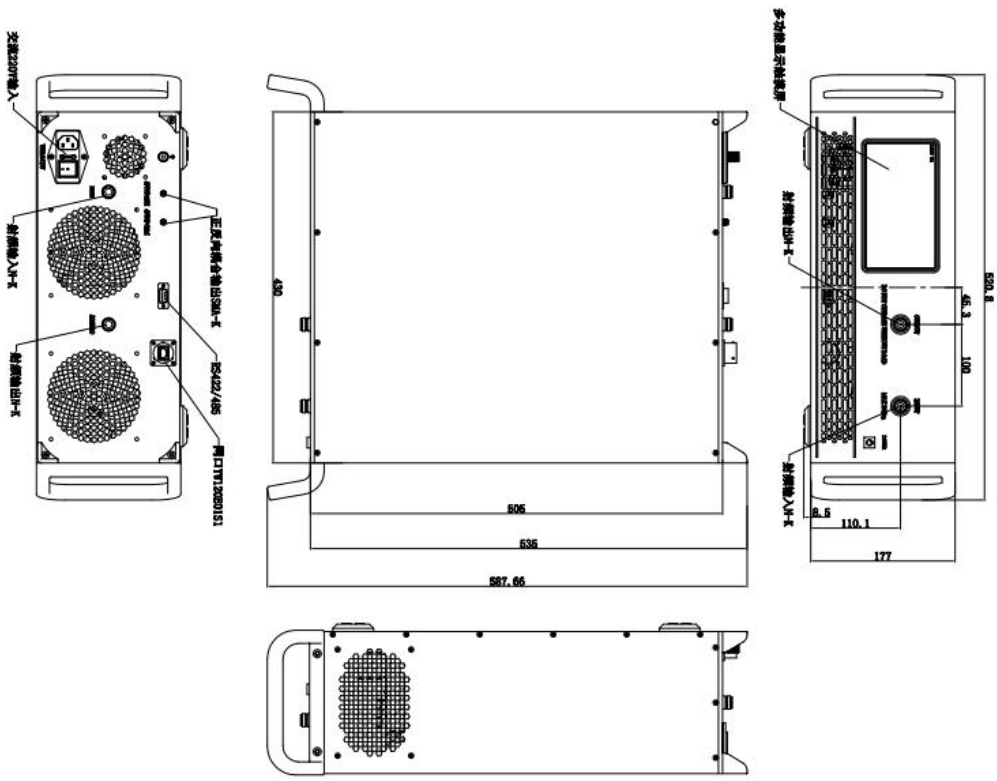
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
Size	485*430*88	mm
Weight	≤12.5	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+10 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
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR
Remote control	RS422/Ethernet,LCD Screen Display
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	Desciption	Revision
TLPA0.5G6G-43-43-BC	Solid State High Power Amplifier Systems 0.5-6GHz,Gain:43dB,Psat:43 dBm,220V AC,Built in Fan Cooling	Rev.1.1

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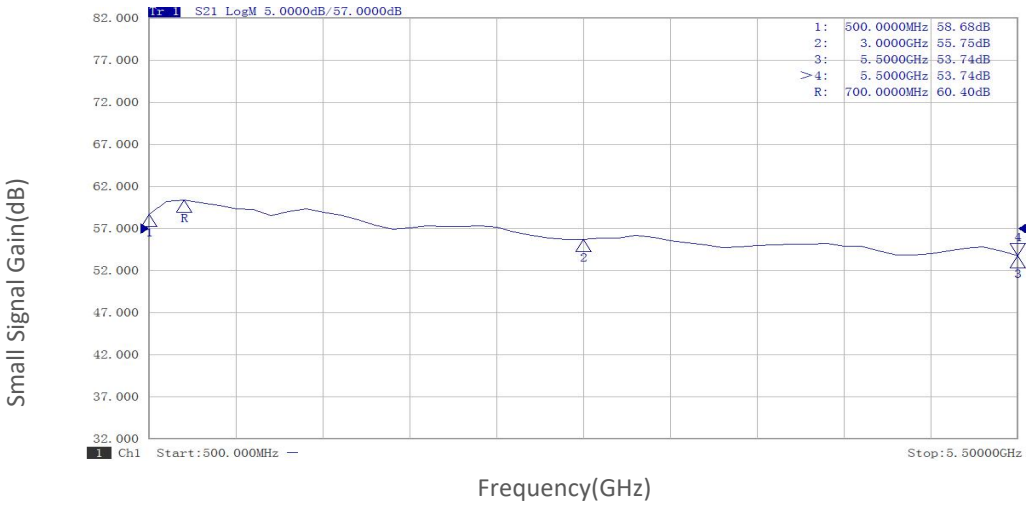
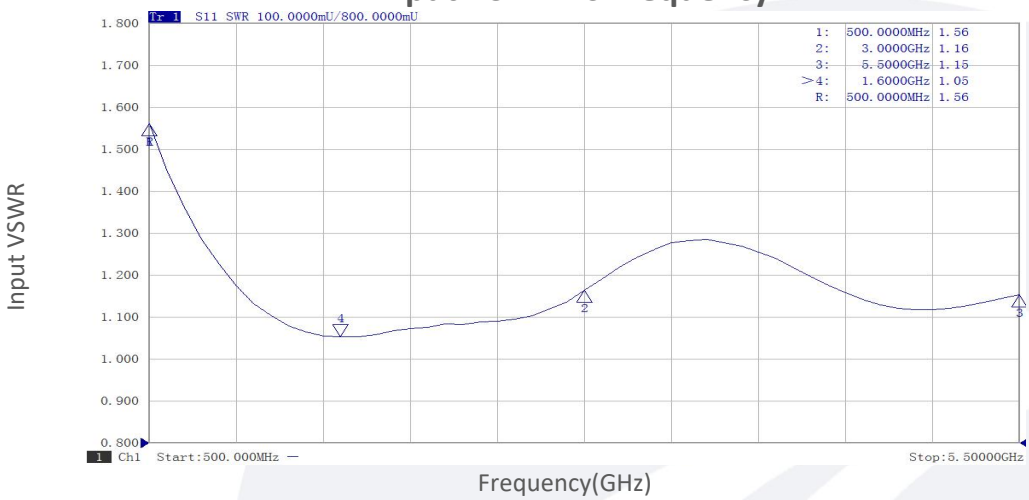
Typical Performance Data:

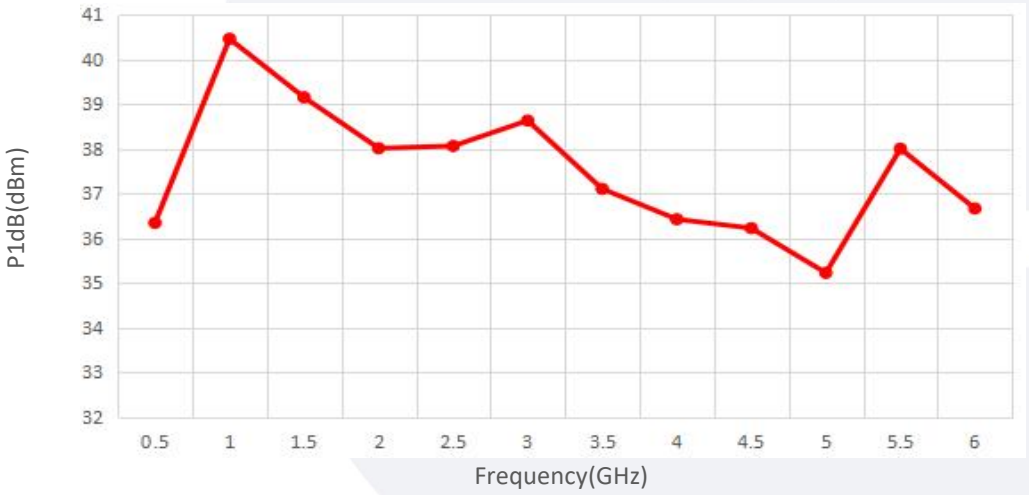
Small Signal Gain vs Frequency



Input VSWR vs Frequency



P1dB vs Frequency



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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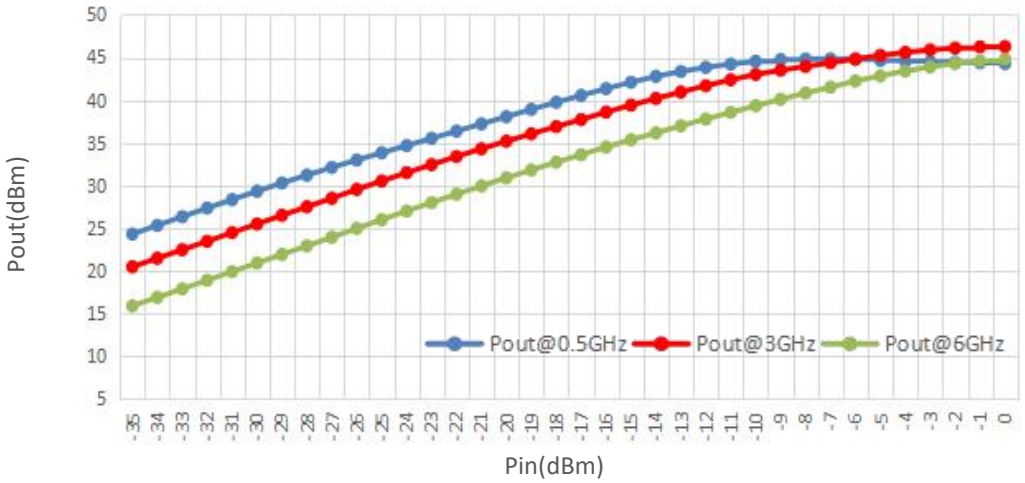
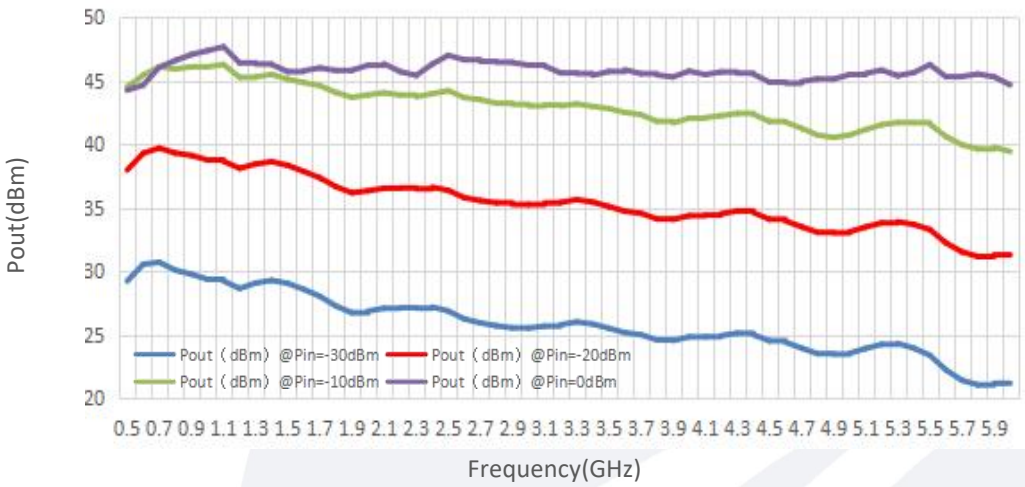
Typical Performance Data:

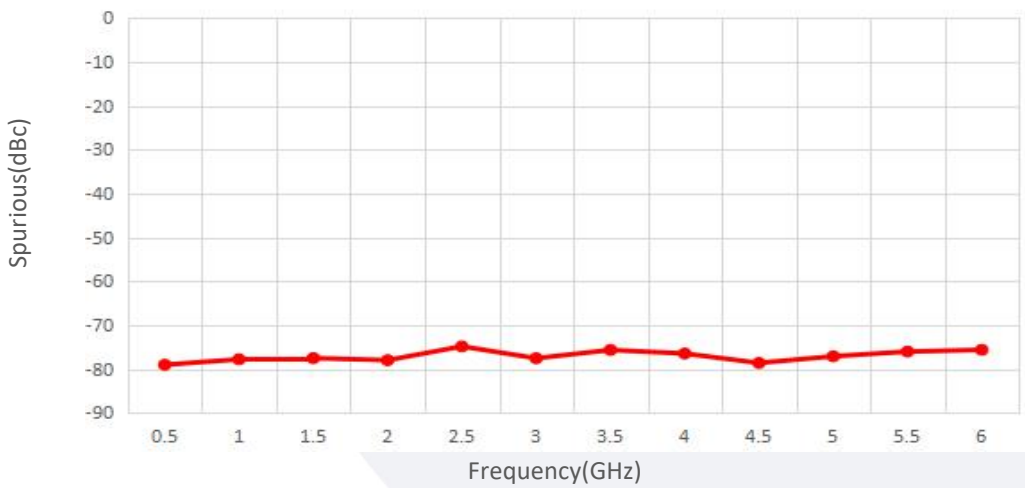
Pout@Pin



Pout@Equal_Pin



Spurious vs Frequency



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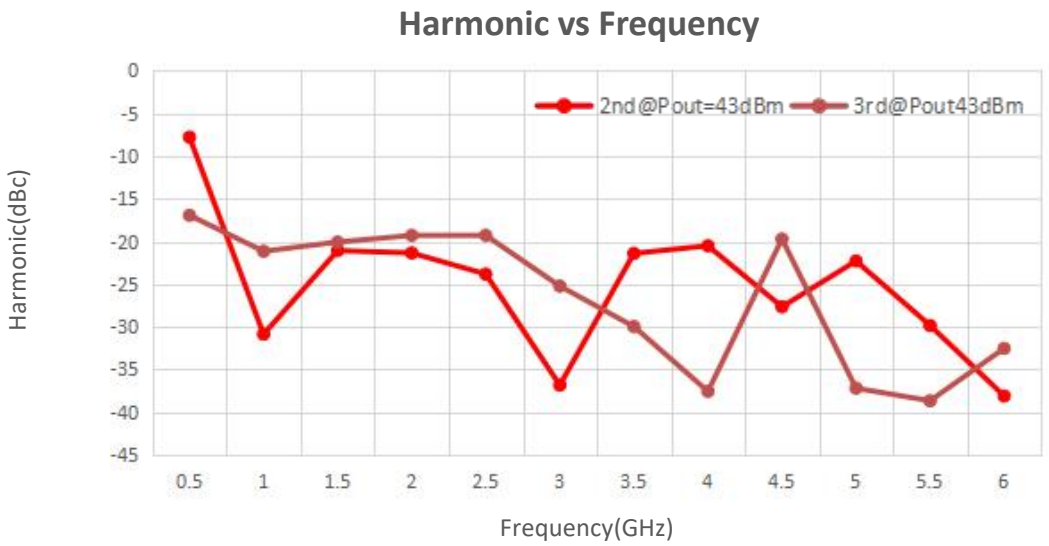

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