泰莱微波
Talent Microwave

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www.talentmw.com

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

Solid State High Power Amplifier Systems 0.5-6GHz,Gain:43dB,Psat:43dBm,220V AC

Feature:

- 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 Specifications:

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW		0.5-6		GHz
Gain	GP	43	45		dB
Gain flatness	ΔGL		±3.5		dB
Output Psat	Psat	43	44		dBm
Spurious@Pout=43dBm	Spur			-50	dBc
Harmonics@Pout=43dBm	HAM			-10	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		220		V AC
Impedance	I/O-IMP		50		Ohms

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

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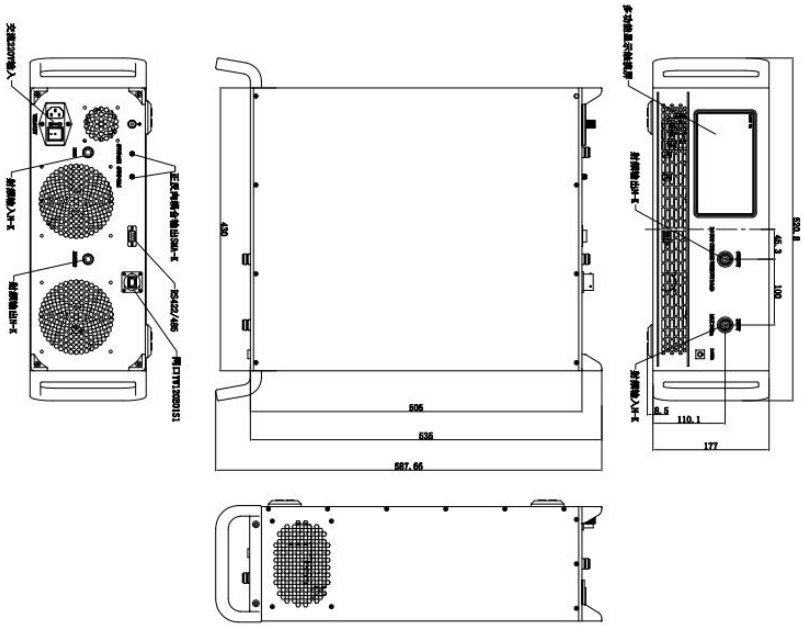
Outline Drawing:

Unit: mm



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Kye Features:

Parameter	Advantages
Control	RS422/Ethernet,LCD Screen Display
Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
Control functions	1,Power setting On/Off 2,ALC
Cooling system	Built in Cooling system,forced air cooling

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Environmental Conditions:

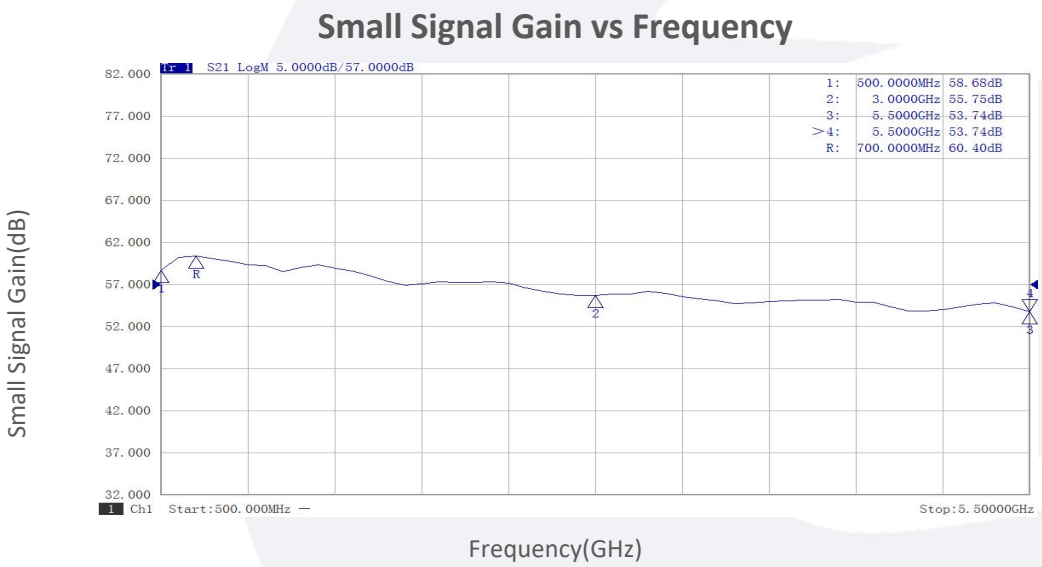
Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+50	℃
Non-operating Temperature*	-30		+60	℃
Relative humidity		95		%
Altitude	10000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

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

Ordering Information:

Part Number	Description	Revision
TLPA0.5G6G-43-43-BC	Solid State High Power Amplifier Systems 0.5-6GHz,Gain:43dB,Psat:43dBm,220V AC,Built in Fan Cooling	Rev.1.0

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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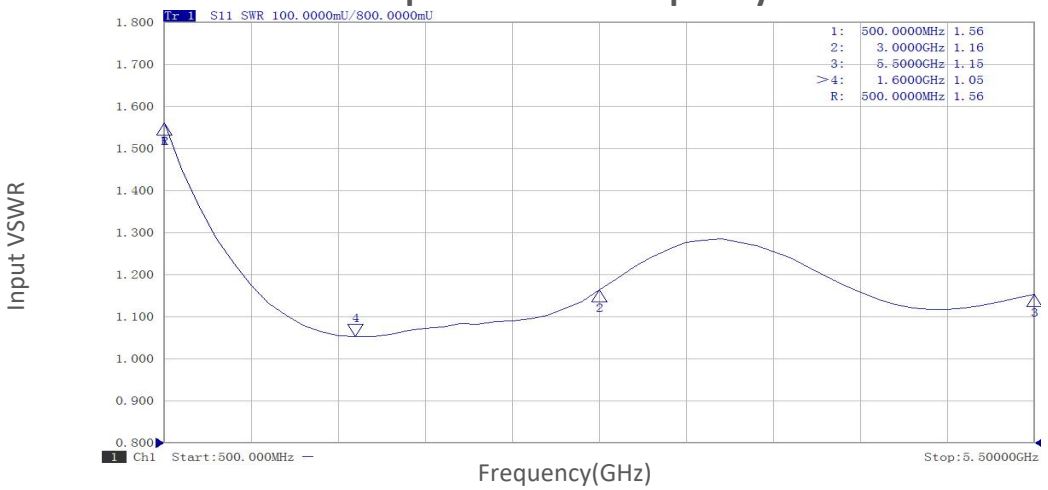
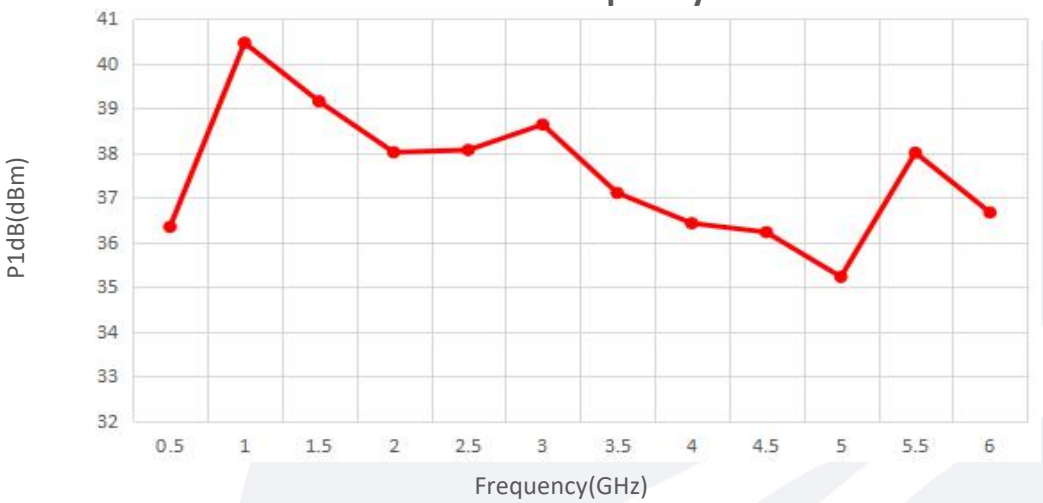
Typical Performance Data:

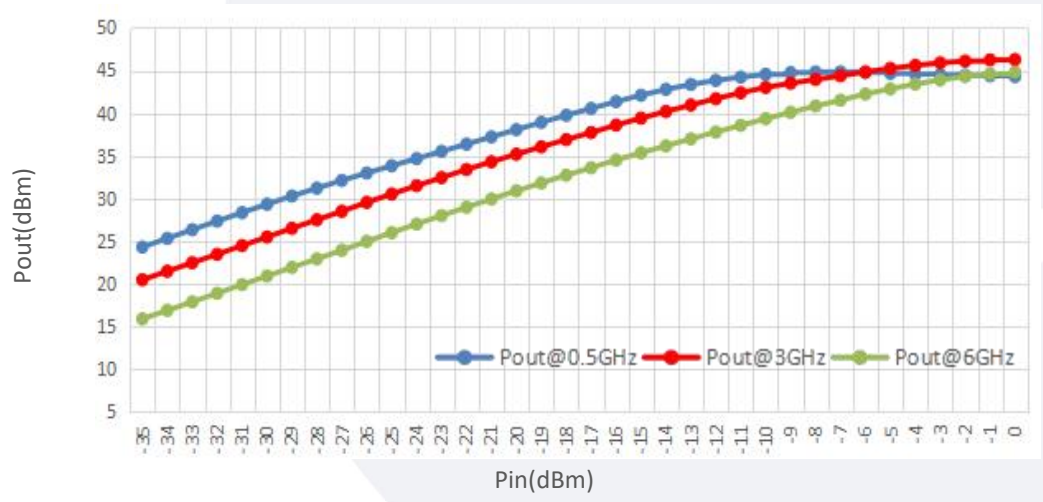
Input VSWR vs Frequency



P1dB vs Frequency



Pout@Pin



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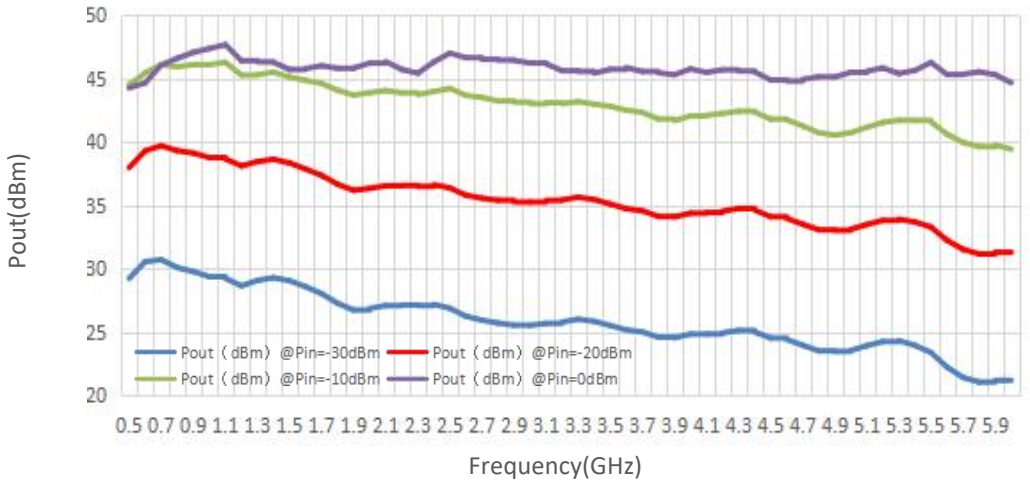
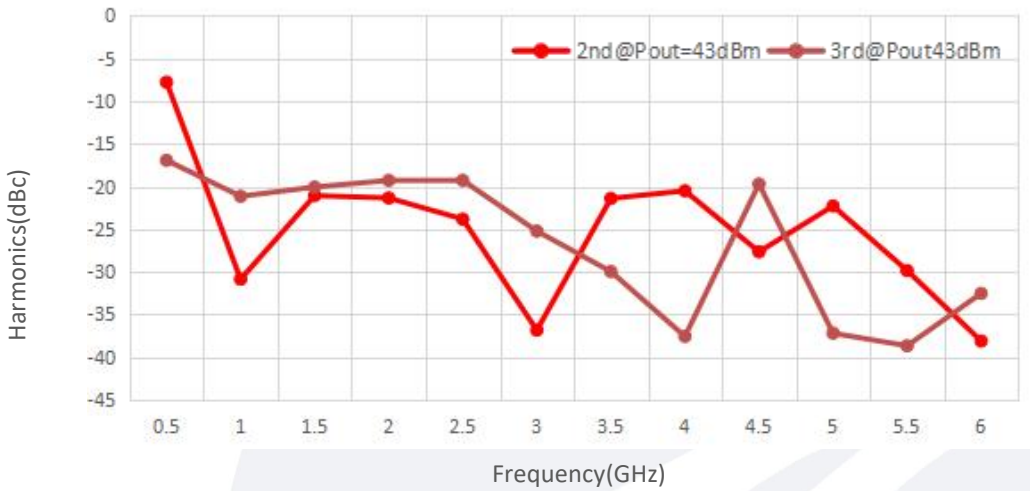
Typical Performance Data:

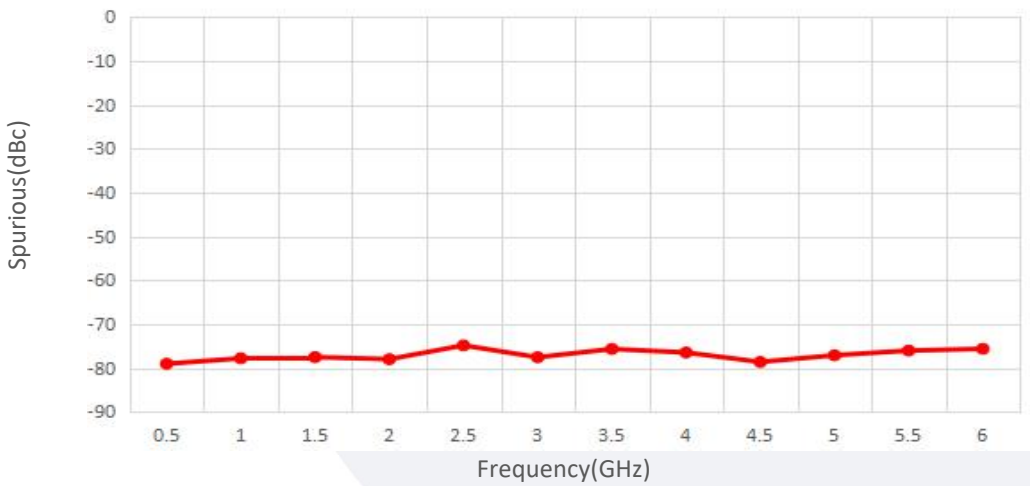
Pout@Equal_Pin



Harmonics vs Frequency



Spurious vs Frequency



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