

Model:TLPA6G18G-54-54-BC
**Solid State High Power Amplifier Systems
 6-18GHz,Gain:54dB,Psat:54dBm,220V AC**
Feature:

- Wide Band: 6-18GHz
- Gain: 54dB Min
- Psat Output Power:54dBm 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	6-18			GHz
Gain	GP	54			dB
Gain flatness	Δ GL			± 4	dB
Gain adjust range	Δ GR		30		dB
Gain adjust step	Δ GS		0.5		dB
Output P1dB	P1dB		49		dBm
Output Psat	Psat	54			dBm
Spurious@Pout=54dBm	Spur			-60	dBc
Harmonics@Pout=54dBm	HAM		-15	-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	N Female/WRD500	
Size	5U	
Weight	35	Kg

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	220V AC
RF Input Power	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



Key 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

Environmental Conditions:

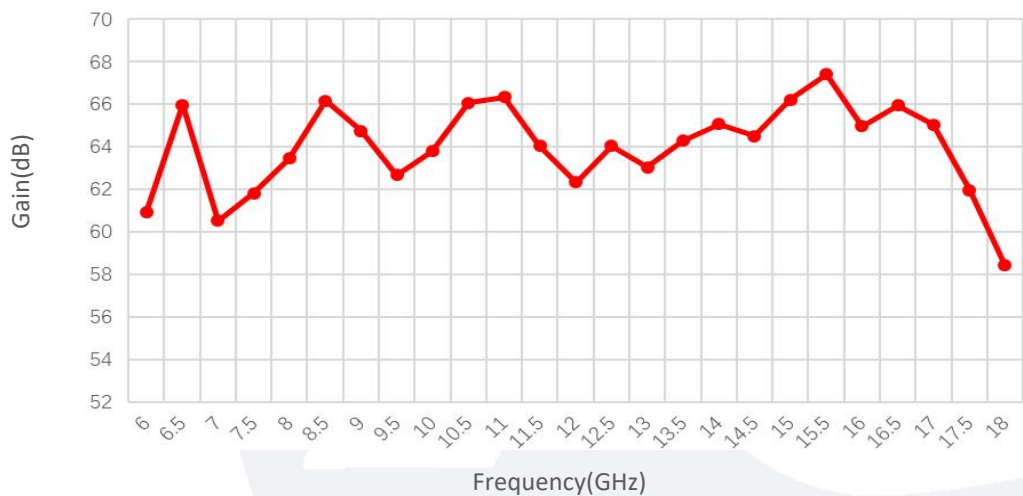
Parameter	Min	Typ	Max	Units
Operating Temperature	0		+50	°C
Non-operating Temperature	-20		+50	°C
Relative humidity		95		%
Altitude	10000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA6G18G-54-54-BC	Solid State High Power Amplifier Systems 6-18GHz,Gain:54dB,Psat:54dBm,220V AC,Built in Fan Cooling	Rev.1.0

Typical Performance Data:

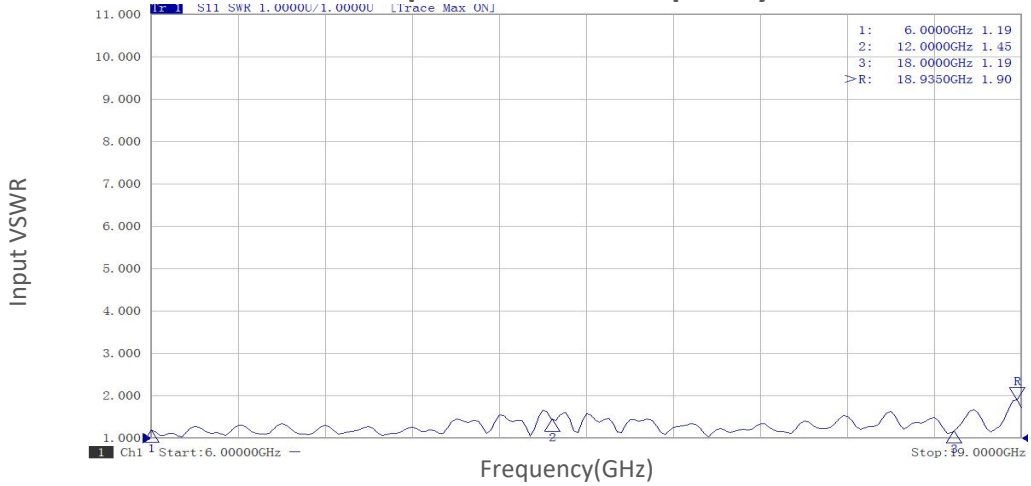
Gain vs Frequency



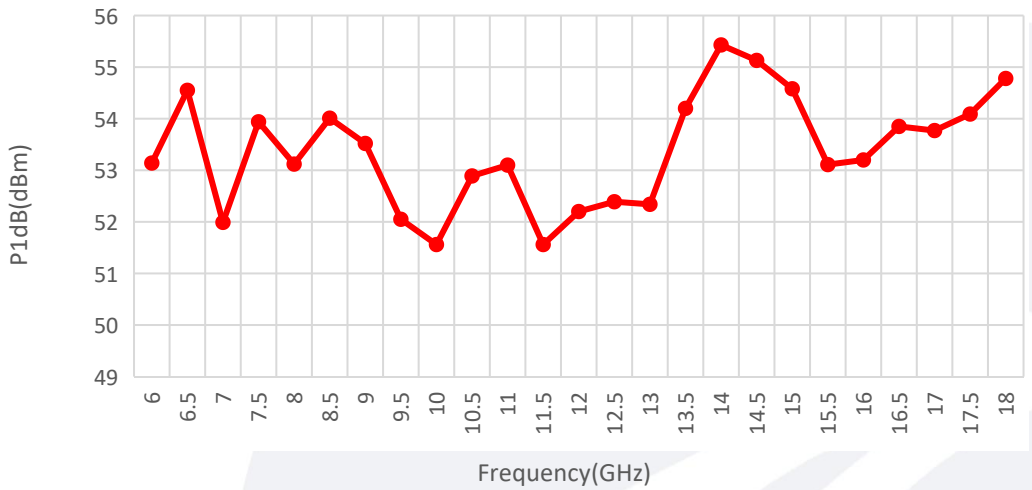
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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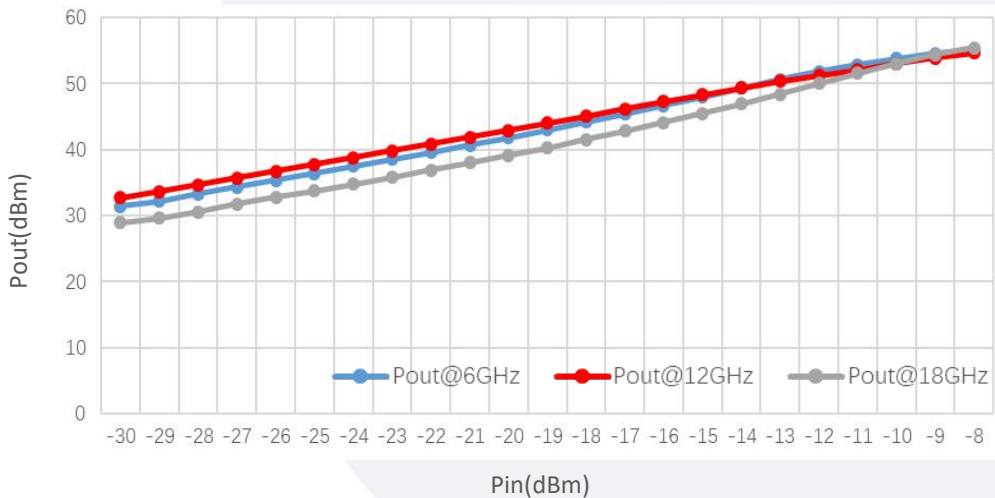
Input VSWR vs Frequency



P1dB vs Frequency



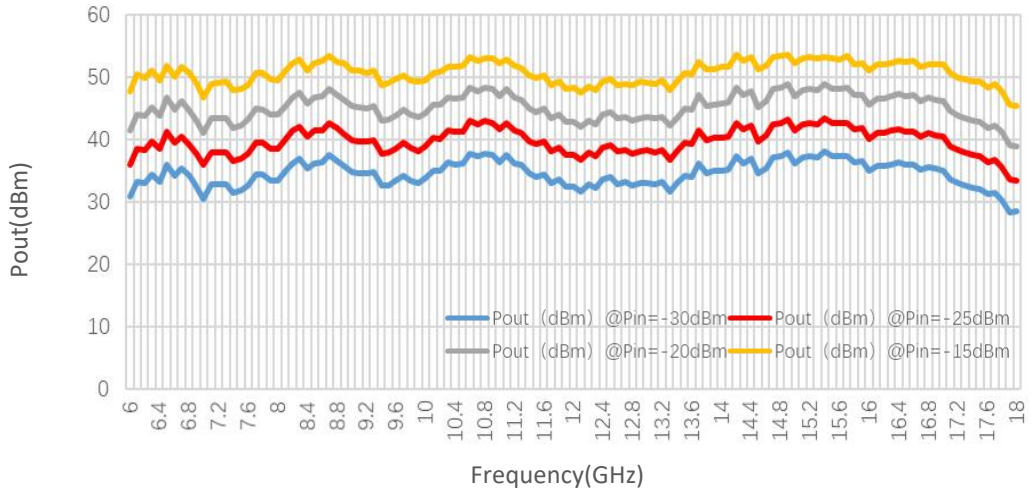
Pout@Pin



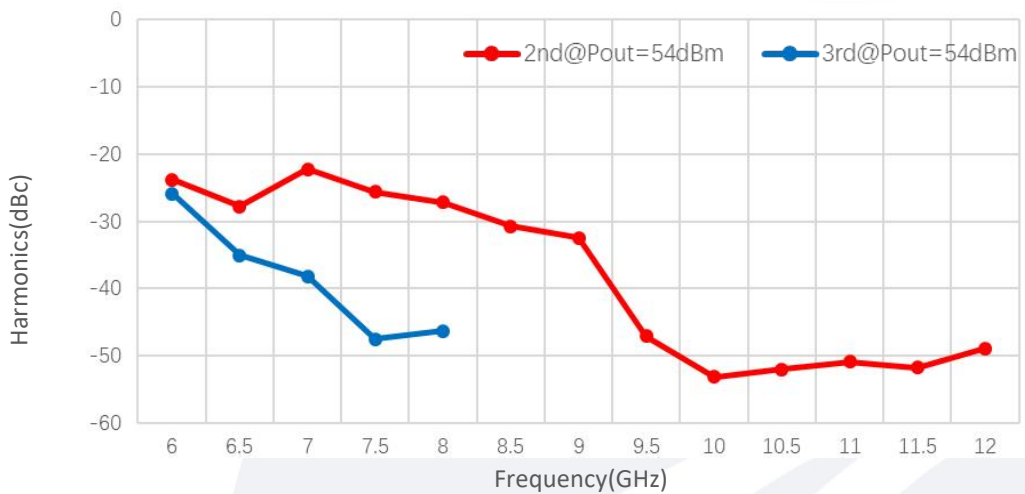
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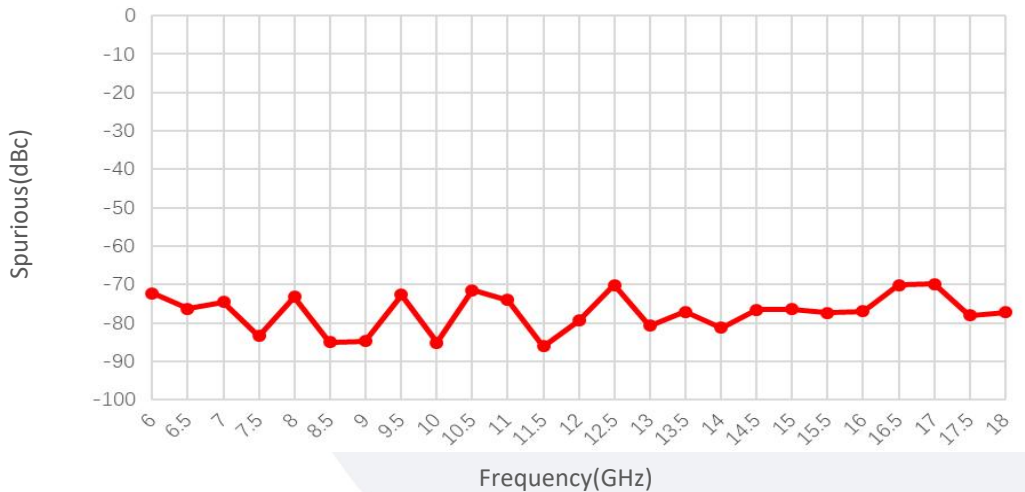
Pout@Equal_Pin



Harmonics vs Frequency



Spurious vs Frequency



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