

Model:TLPA1G6G-54-54-BC
**Solid State High Power Amplifier Systems
 1-6GHz, Gain:54dB, Psat:54dBm, 220V AC**
Feature:

- Wide Band: 1-6GHz
- 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	1-6			GHz
Gain	GP	54			dB
Gain flatness	Δ GL		± 3	± 5	dB
Output Psat	Psat	56			dBm
Output P1dB	P1dB		50		dBm
Gain adjust range	Δ GR	30			dB
Spurious	Spur			-60	dBc
Harmonics	HAM			-10	dBc
Input VSWR	VSWRin		1.5	2.0	:1
AC Voltage	Vac	110	220		V AC
AC Supply Current	Iac	6A@220V AC			A
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input/Output Connector	N Female/N Female	
Size	4U*500mm depth	
Weight	15	Kg

Absolute Maximum Ratings:

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

Outline Drawing:

Unit: mm



Key Features:



Parameter	Advantages
Control	RS422/Ethernet
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:

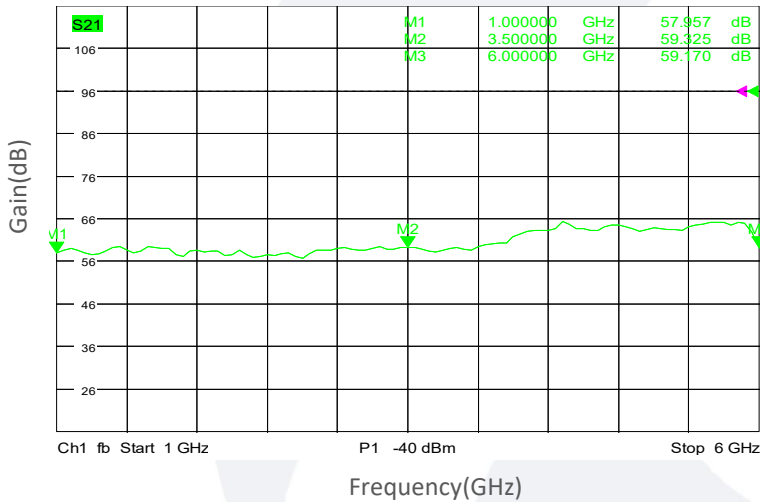
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+50	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA1G6G-54-54-BC	Solid State High Power Amplifier Systems 1-6GHz,Gain:54dB,Psat:54dBm,220V AC,Built in Fan Cooling	Rev.1.0

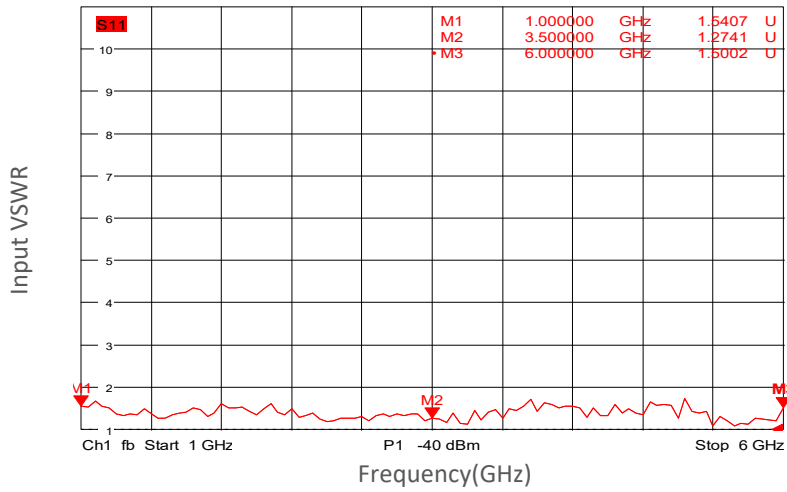
Typical Performance Data:

Gain vs Frequency

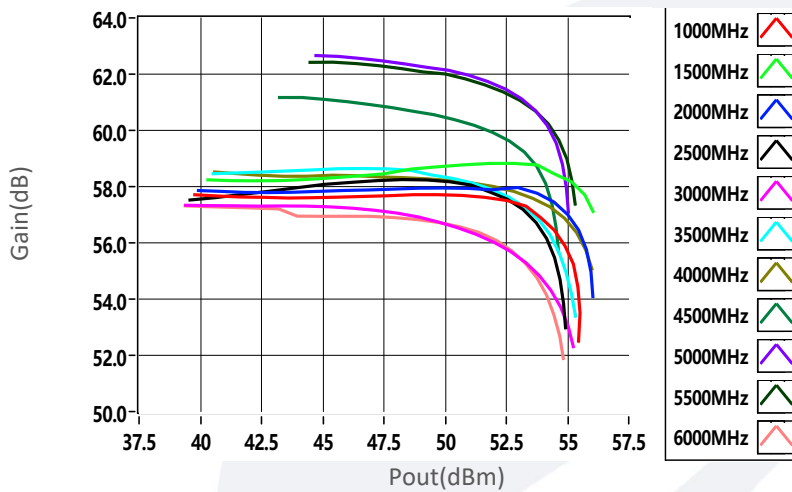


Typical Performance Data:

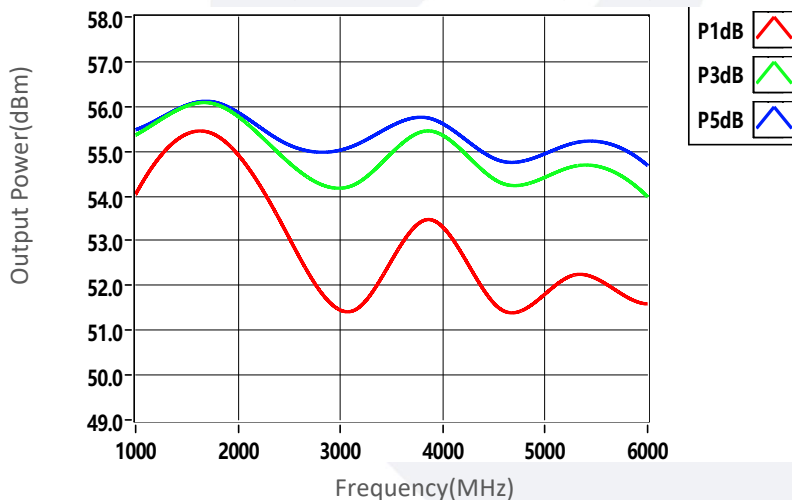
Input VSWR vs Frequency



Gain vs Output Power

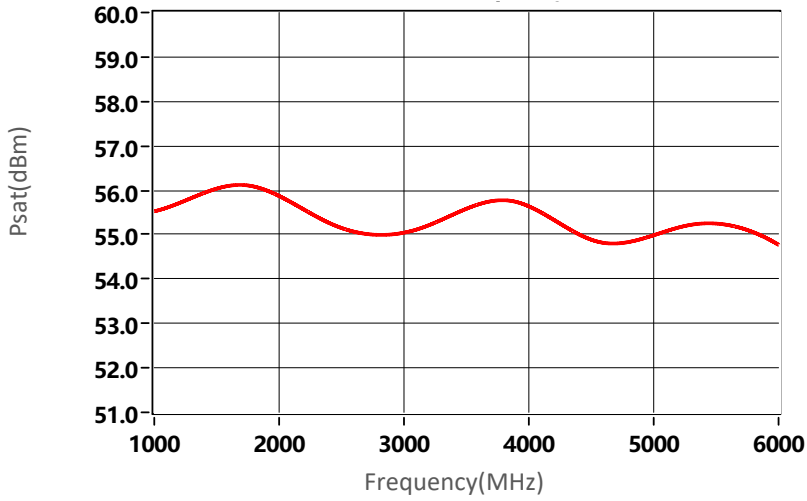


Output Power vs Frequency

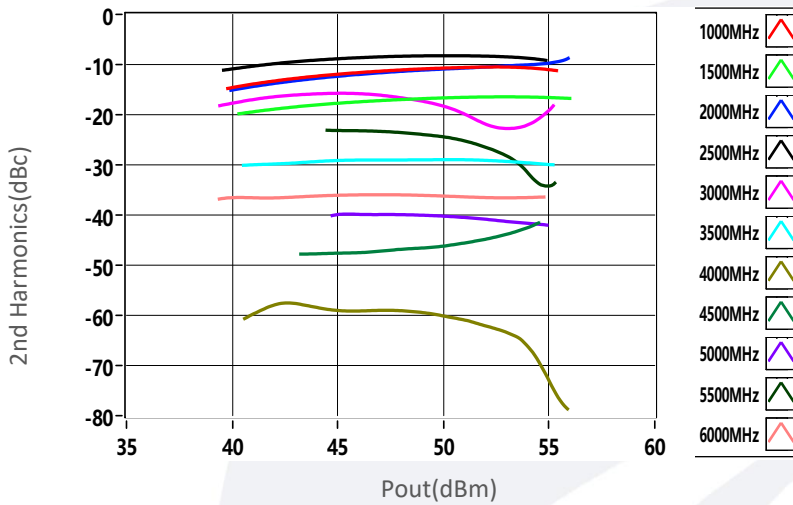


Typical Performance Data:

P_{sat} vs Frequency



2nd Harmonics VS Output Power



3rd Harmonics VS Output Power

