

Model:TLPA0.8G3G-54-54-BC
**Solid State High Power Amplifier Systems
 0.8-3GHz,Gain:54 dB,Psat:54 dBm,220V AC**
Feature:

- Wide Band: 0.8-3MHz
- 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	0.8-3			GHz
Gain	GP	54			dB
Gain flatness	Δ GL		± 3		dB
Output Psat	Psat	54			dBm
Output P1dB	P1dB		50		dBm
Spurious@Pout=53dB	Spur			-60	dBc
Harmonics@Pout=53dB	HAM			-10	dBc
Input VSWR	VSWRin		1	2.0	:1
AC Voltage	Vac	220			V AC
Power Consumption	Pdiss	1000@Max			Watts
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	N-K/N-K	
Network port Communication	RJ-45	
Size	19 Inch 5U	mm
Weight	≤ 35	Kg

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF INPUT POWER	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



Key Features:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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

Environmental Conditions:

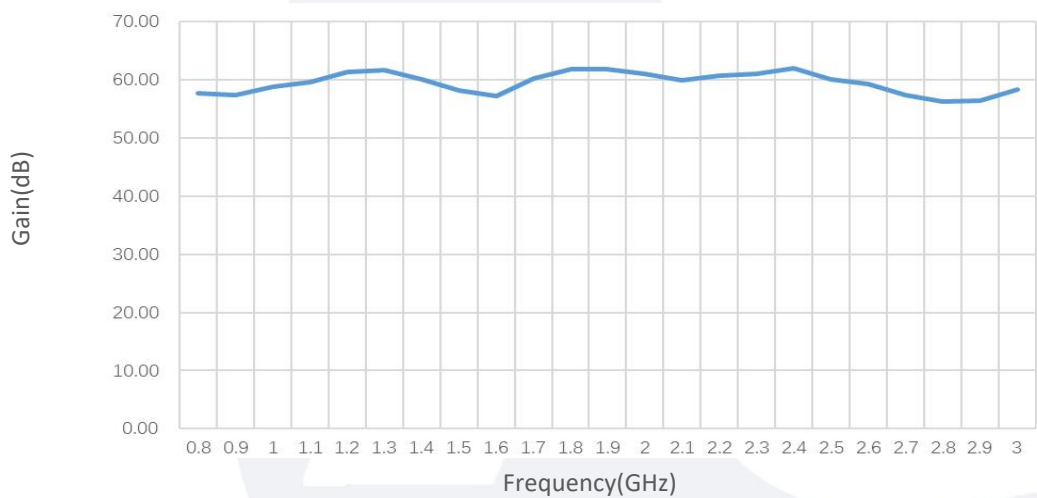
Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+50	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA0.8G3G-54-54-BC	Solid State High Power Amplifier Systems 0.8-3GHz, Gain:54dB, Psat:54 dBm, 220V AC, Built in Fan Cooling	Rev.1.0

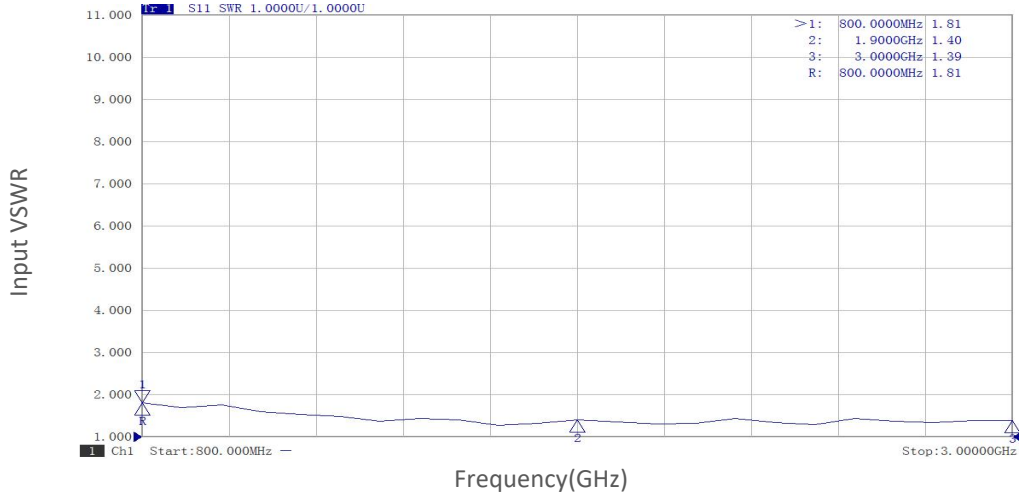
Typical Performance Data:

Gain vs Frequency

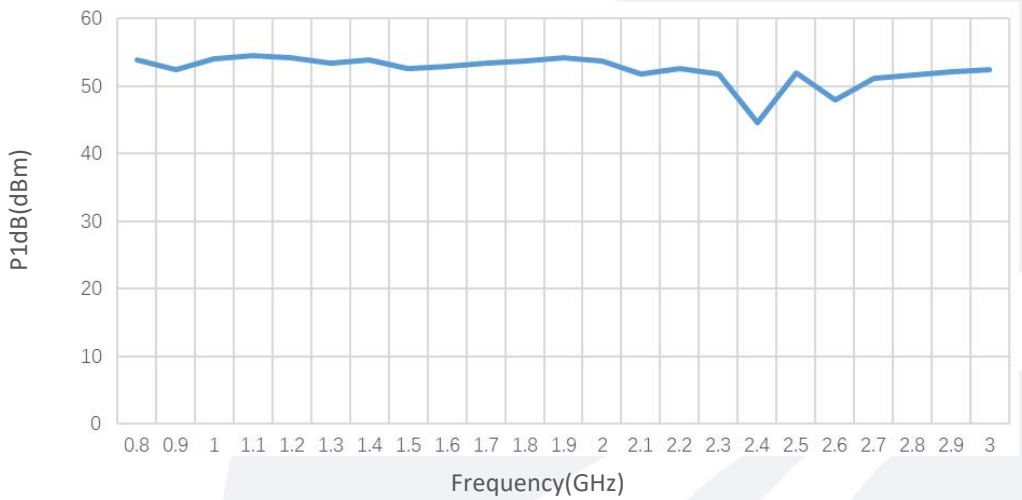


Typical Performance Data:

Input VSWR vs Frequency



P1dB vs Frequency

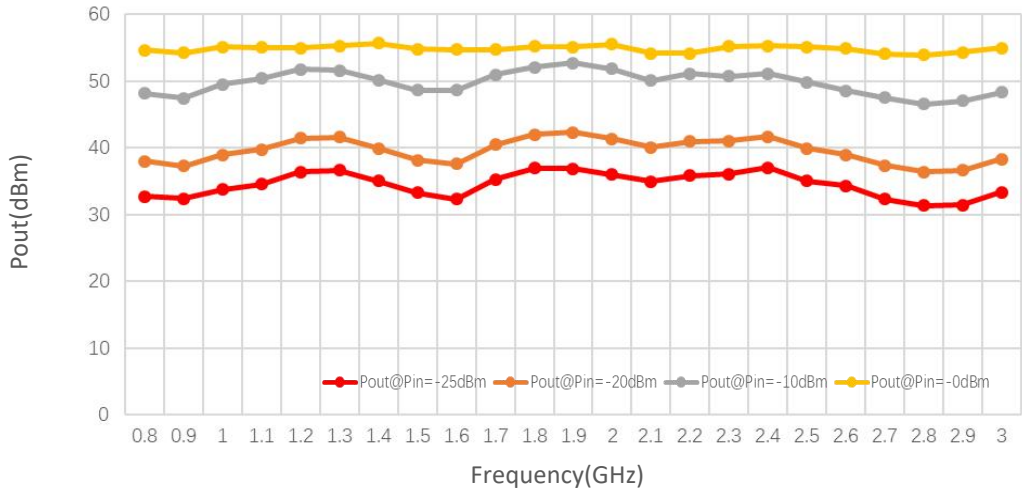


Pout@Pin

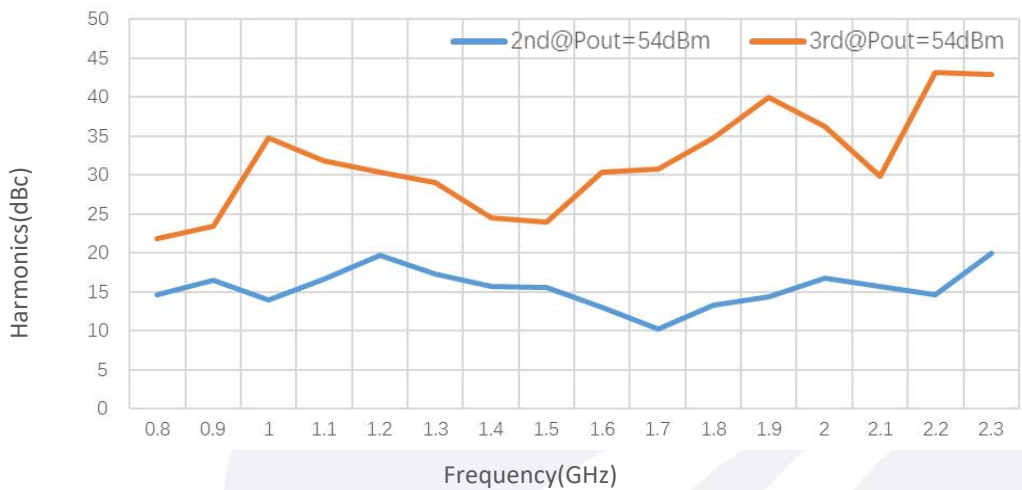


Typical Performance Data:

Pout@Equal_Pin



Harmonics vs Frequency



Spurious vs Frequency

