

Model:TLPA6G18G-43-43-BC
**Solid State High Power Amplifier Systems
 6-18GHz,Gain:43dB,Psat:43dBm,220V AC**
Feature:

- Wide Band: 6-18GHz
- 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	6-18			GHz
Gain	GP	43			dB
Gain flatness	Δ GL		± 3		dB
ALC Precision	ALC			± 0.5	dB
Output Psat	Psat	43			dBm
Spurious@Pout=43dBm	Spur			-60	dBc
Harmonics@Pout=43dBm	HAM			-15	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac	220			V AC
Power Consumption	Pdiss	400@Max			Watts
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input/Output Connector	SMA Female/SMA Female	
Network port Communication	RS422/RJ-45	
Size	19 Inch 3U*550 depth	mm
Weight	≤ 30	Kg

Absolute Maximum Ratings:

Parameter	Value
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
Display functions	1,Output Power 2,Reflect Power 3,Fault message
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:

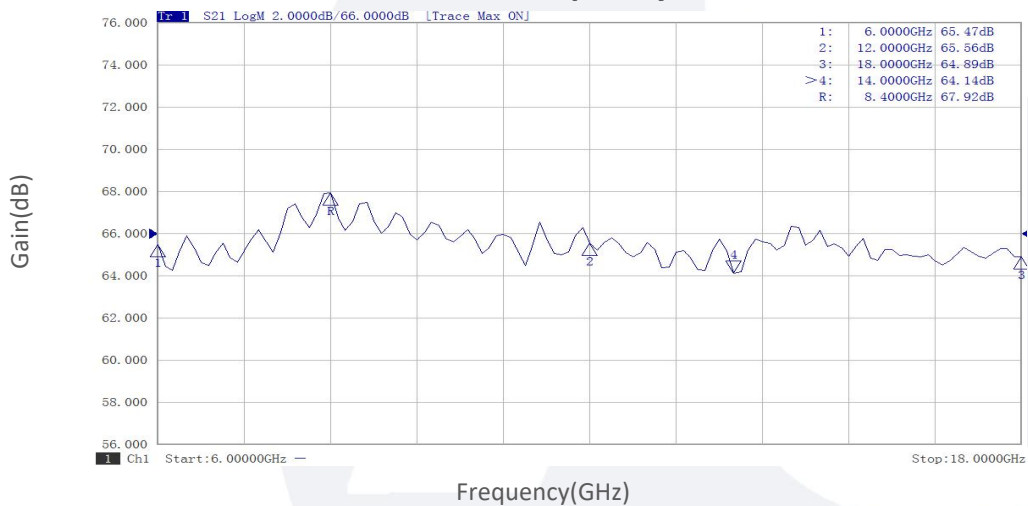
Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+50	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA6G18G-43-43-BC	Solid State High Power Amplifier Systems 6-18GHz,Gain:43dB,Psat:43dBm,220V AC,Built in Fan Cooling	Rev.1.0

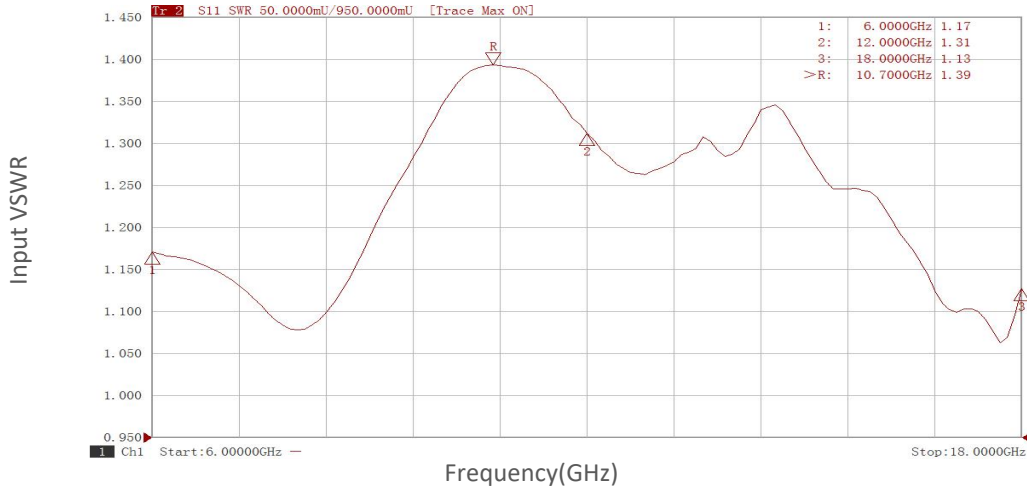
Typical Performance Data:

Gain vs Frequency

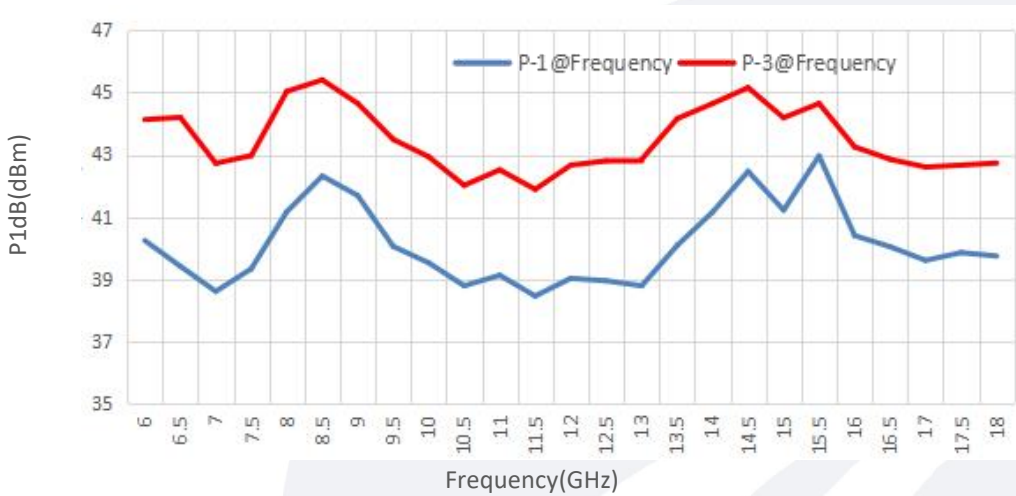


Typical Performance Data:

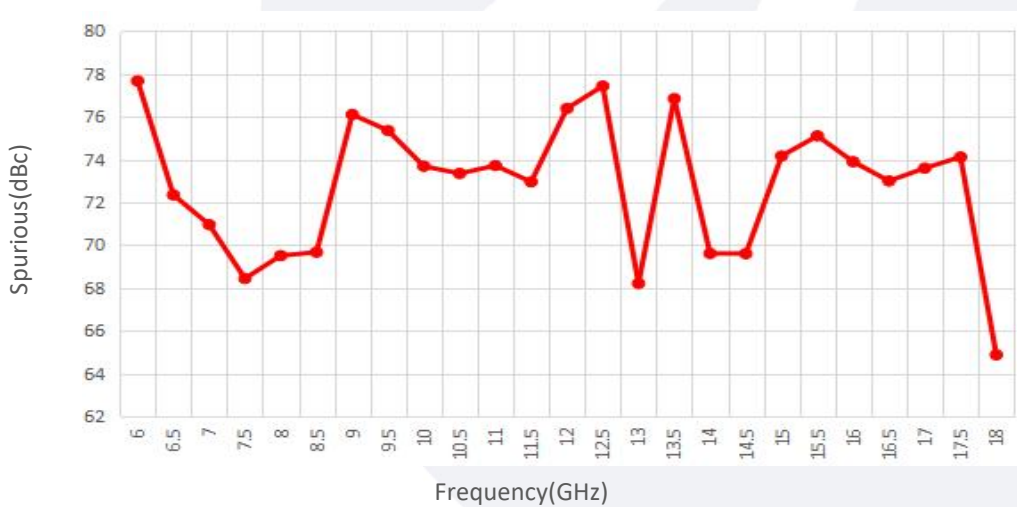
Input VSWR vs Frequency



P1dB vs Frequency

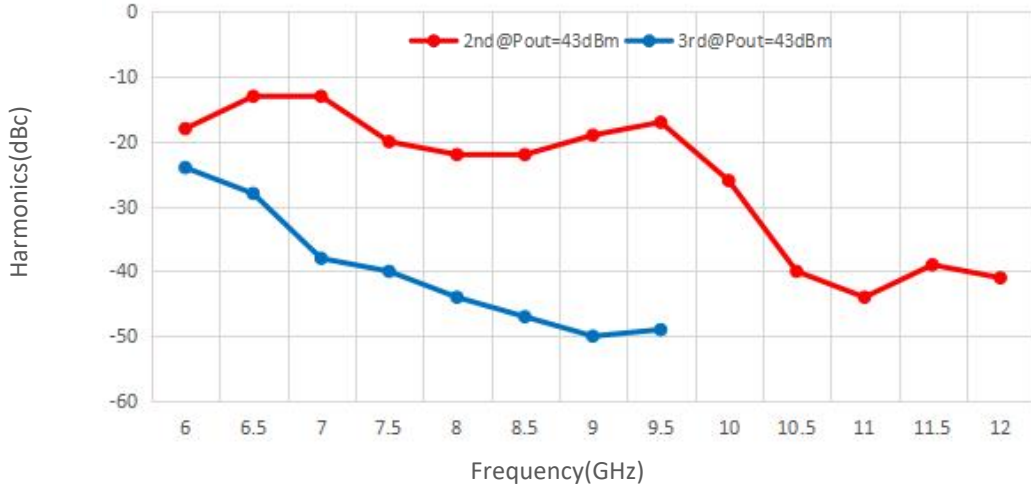


Spurious@Pout=43dBm

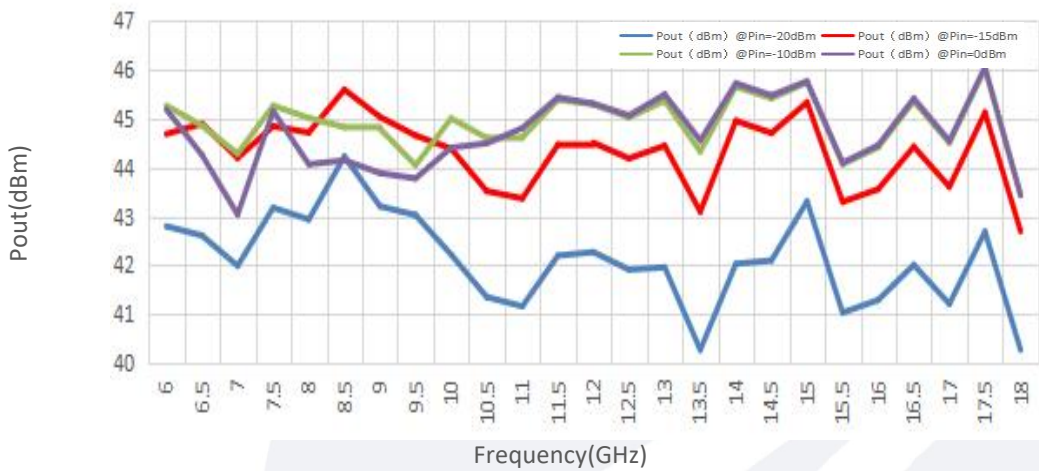


Typical Performance Data:

Harmonics@Pout=43dBm



Pout@Equal_Pin



Pout@Pin

