

Model:TLPA2G18G-43-43-BC

**Solid State High Power Amplifier Systems
2-18GHz,Gain:43dB,Psat:43dBm220V AC**

Feature:

- Wide Band: 2-18GHz
- 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	2-18			GHz
Gain	GP	43			dB
Output Psat	Psat	43			dBm
Spurious	Spur		-60		dBc
Harmonics	HAM		-10		dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac	220			V AC
Power consuptpion	Pdiss		400		Watts
Impedance	I/O-IMP		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input/Output Connector	SMA Female/SMA Female	
AC Power Interface	Air switch	
Size	19 Inch 2U*485mm depth	
Weight	20	Kg

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	260V AC
RF Input Power	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Environmental Conditions:

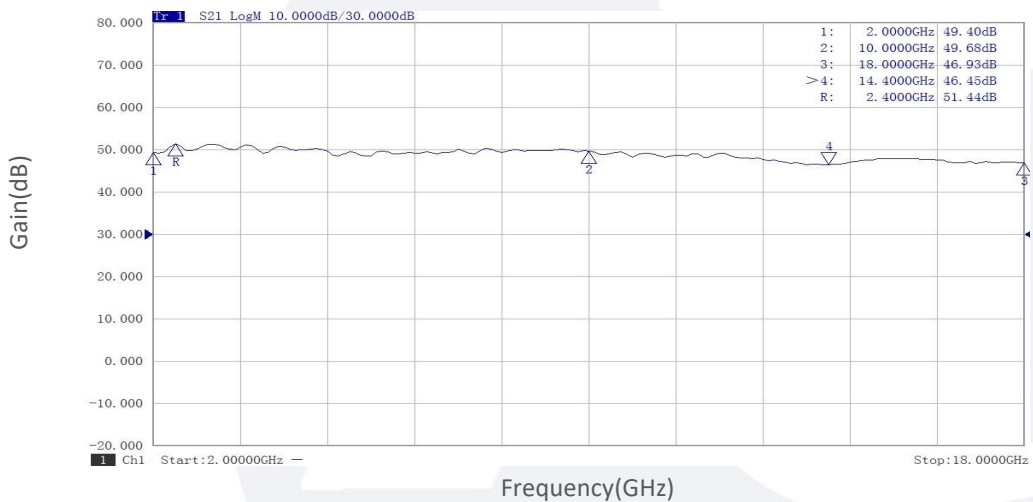
Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+60	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA2G18G-43-43-BC	Solid State High Power Amplifier Systems 2-18GHz,Gain:43dB,Psat:43dBm,220V AC,Built in Fan Cooling	Rev.1.0

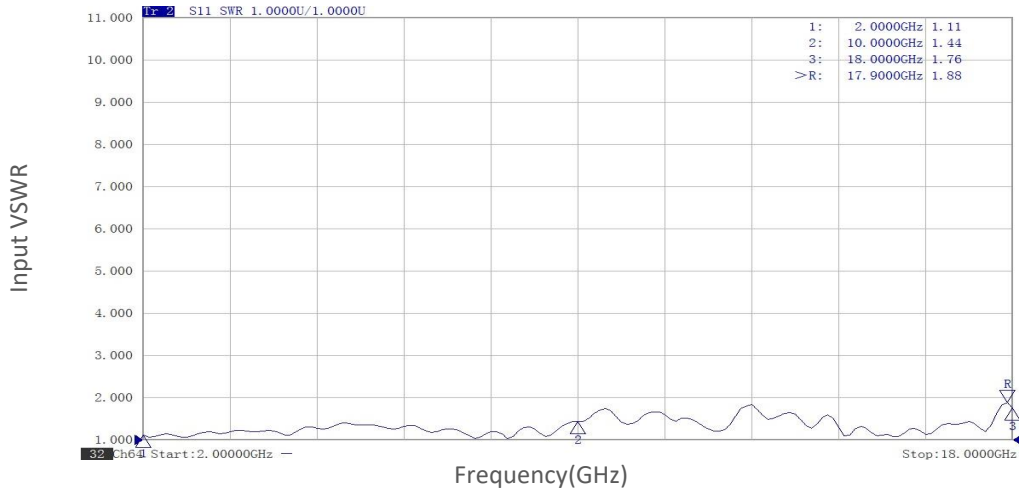
Typical Performance Data:

Gain vs Frequency

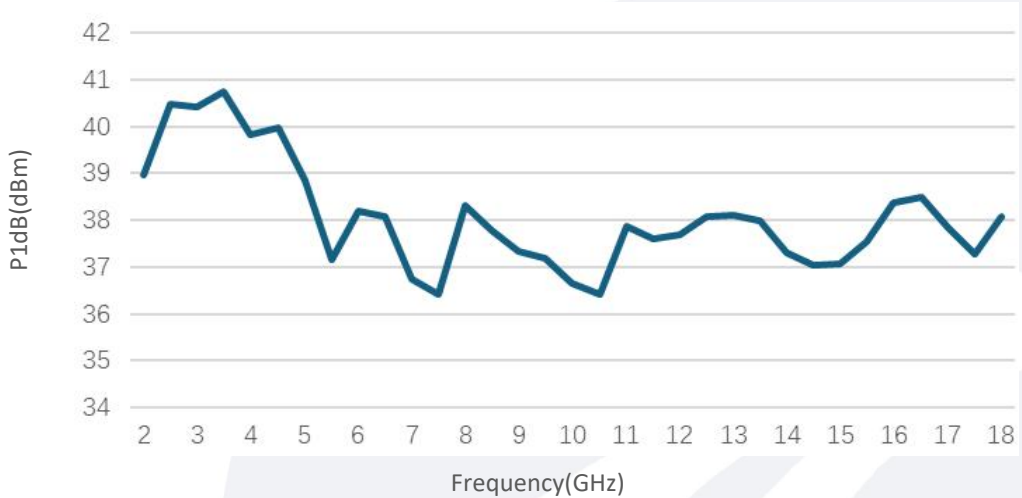


Typical Performance Data:

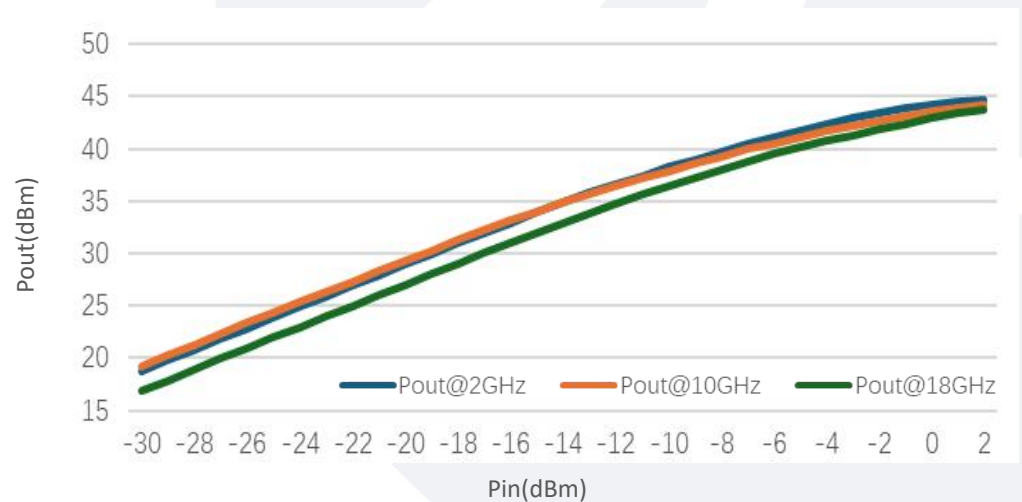
Input VSWR vs Frequency



P1dB vs Frequency

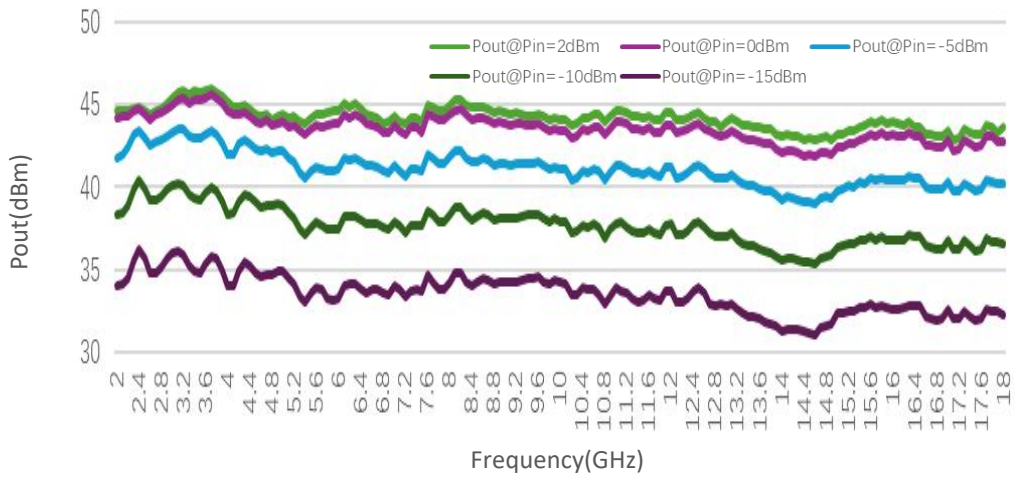


Pout@Pin

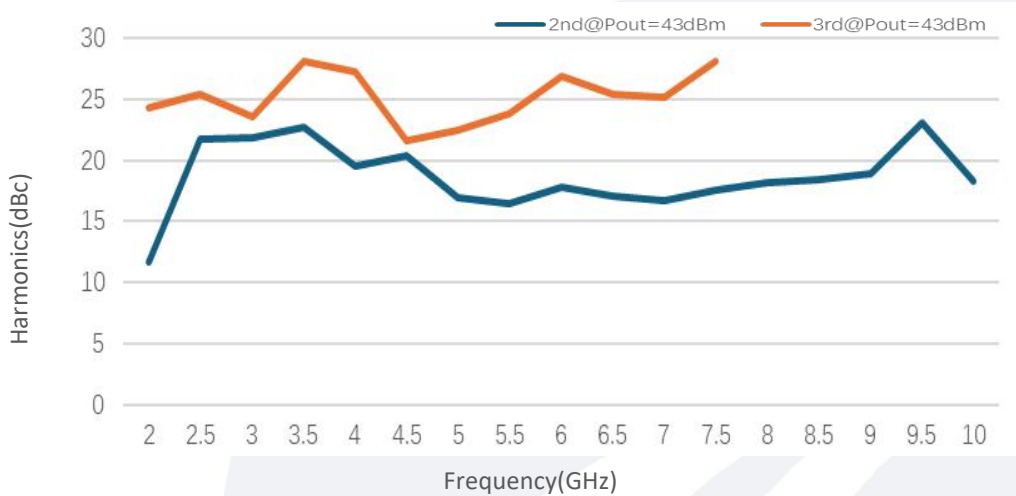


Typical Performance Data:

Pout@Equal_Pin



Harmonics vs Frequency



Spurious vs Frequency

