

Model:TLPA2G6G-45-47

Power Amplifier 2-6GHz,Gain:45dB,Psat:47dBm

Feature:

- Ultra Wide Band: 2-6GHz
- Gain:45dB Typ
- Psat Output Power:47dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	2-6			GHz
Gain	43	45		dB
Gain Flatness		±2.5	±3.5	dB
Output P1dB		45		dBm
Output Psat		47		dBm
Harmonics		-15	-13	dBc
Input VSWR		1.5	2	:1
DC Voltage		+28		V DC
DC Supply Current			8.5	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	177.8*82.5*50.8	mm
Weight	/	g

Absolute Maximum Ratings:

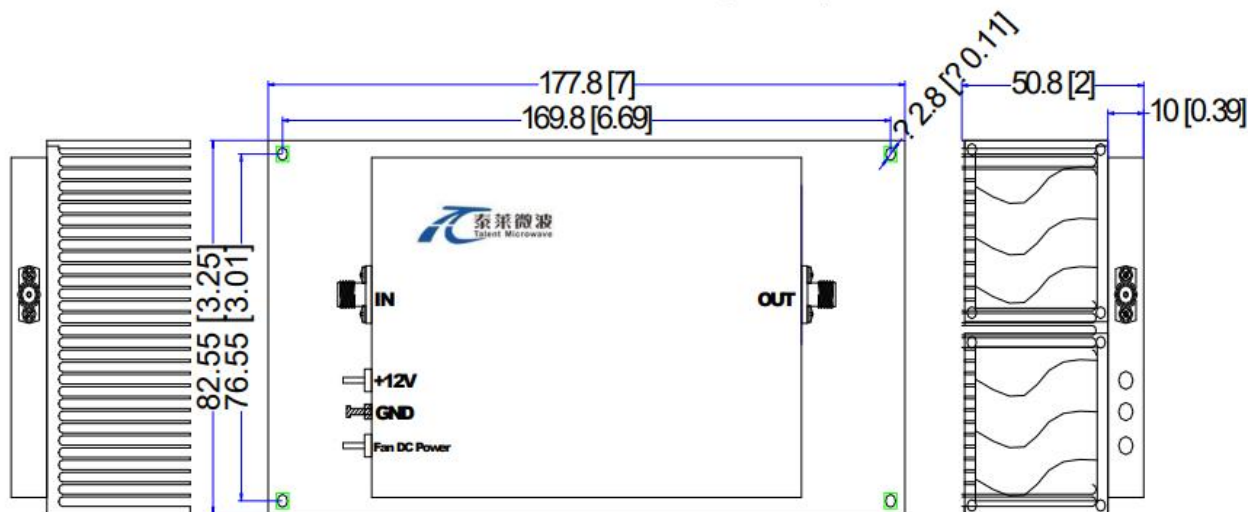
Parameter	Value
Supply Bias Voltage	+28V
RF Input Power	8dBm
ESD sensitivity (Hbm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

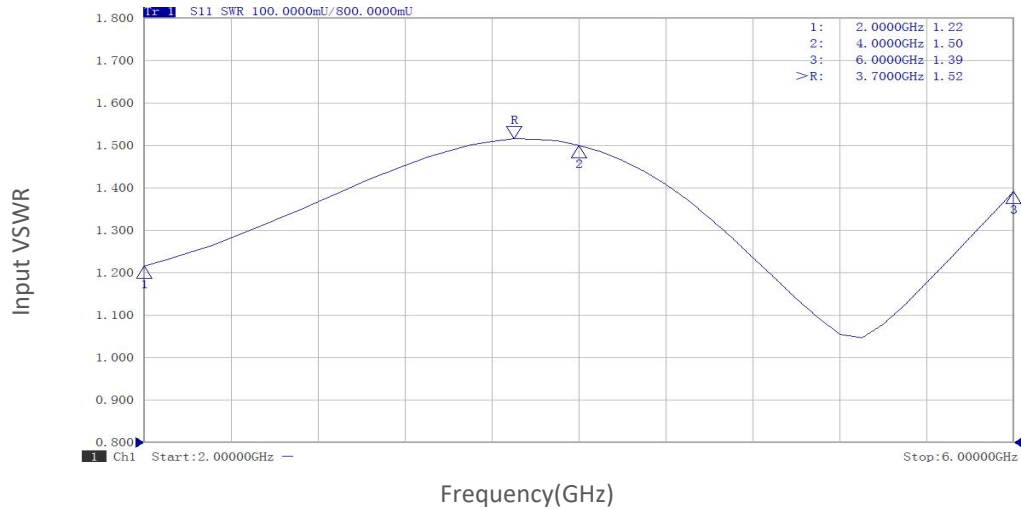
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+75	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

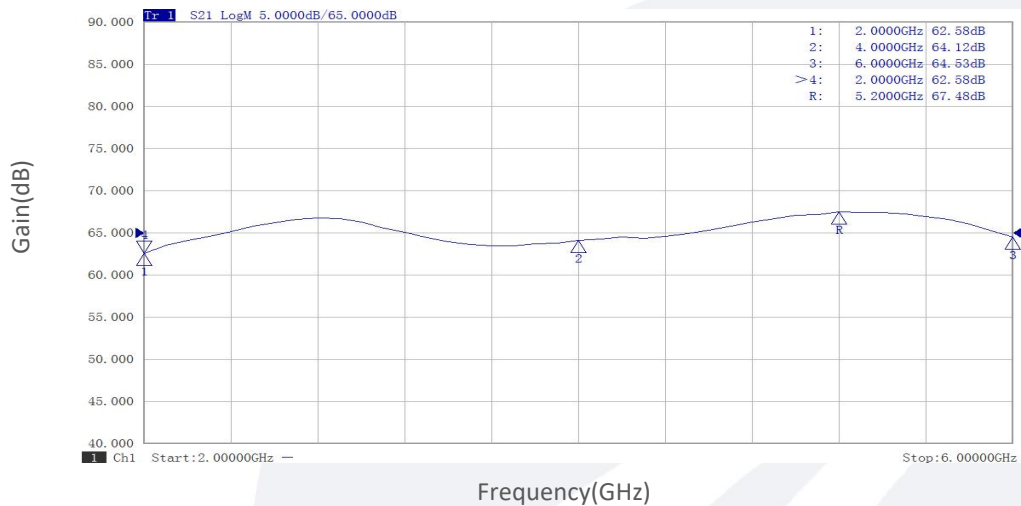
Part Number	Description	Revision
TLPA2G6G-45-47	Power amplifier 2-6GHz,Gain:45dB,Psat:47dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA2G6G-45-47-HS	Power amplifier 2-6GHz,Gain:45dB,Psat:47dBm,+28V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

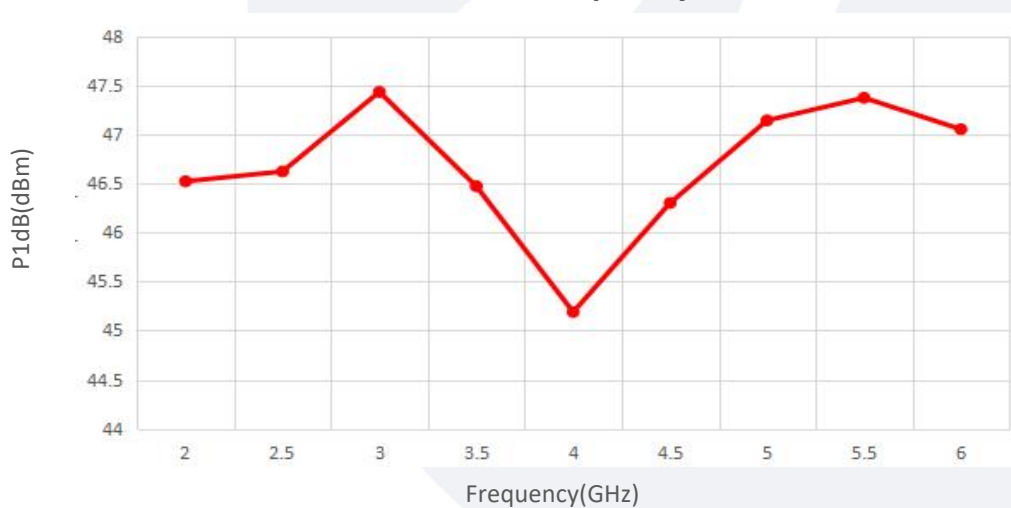
Input VSWR vs Frequency



Gain vs Frequency

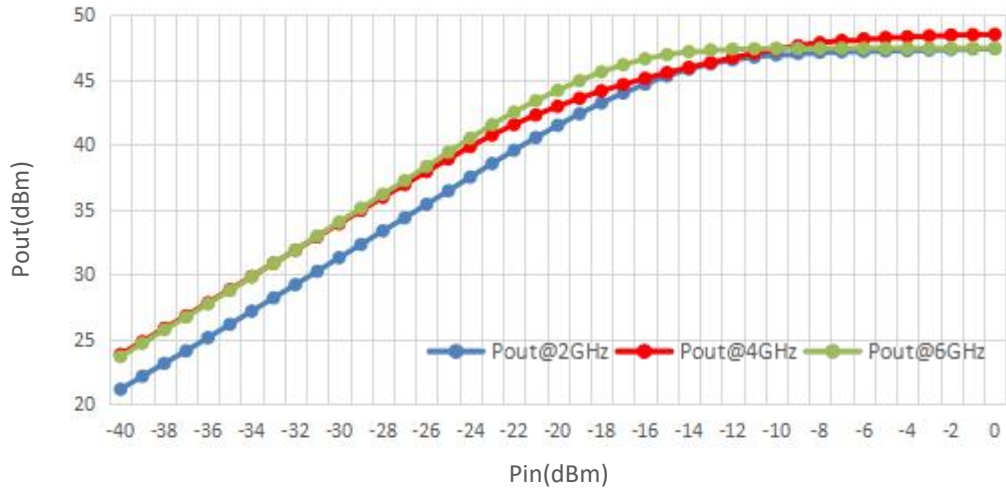


P1dB vs Frequency

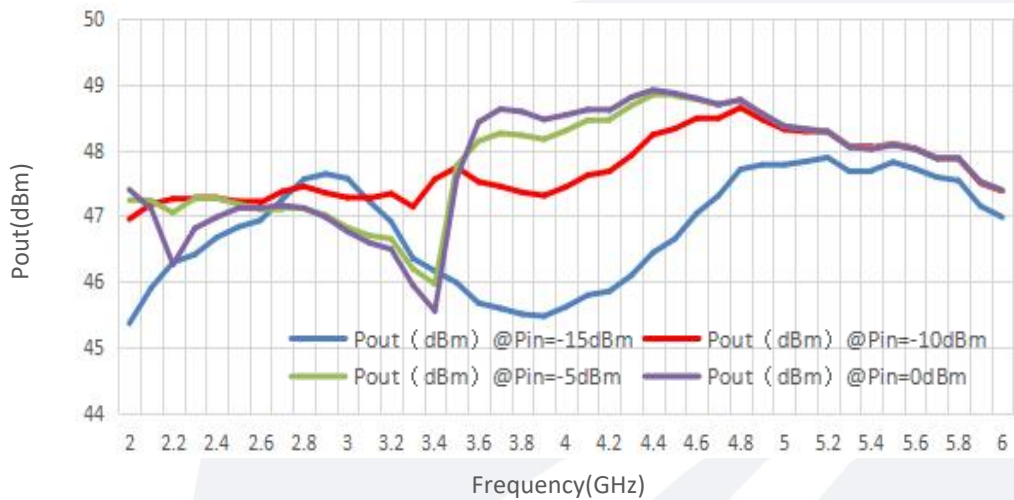


Typical Performance Data:

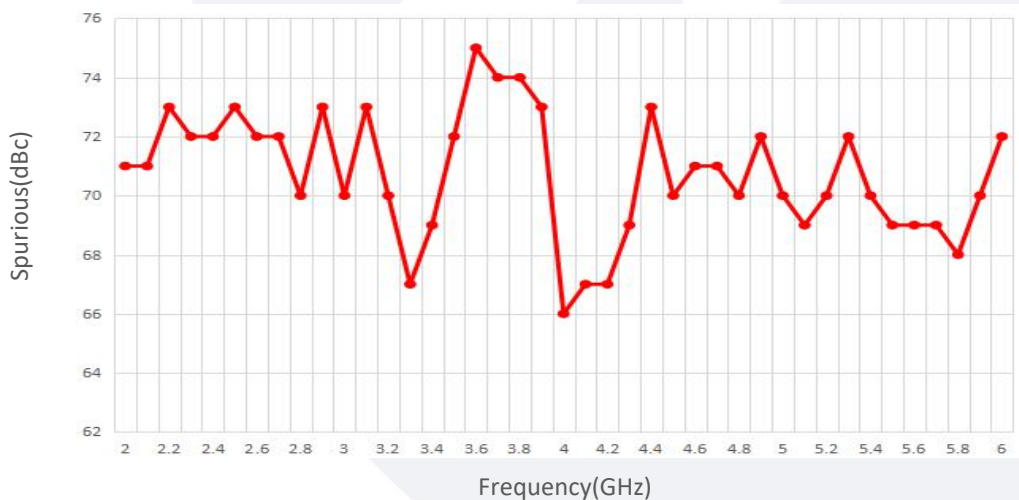
Pout@Pin



Pout@Equal_Pin



Spurious vs Frequency



Typical Performance Data:

Harmonic vs Frequency

