

Model:TLPA6G18G-35-36-W

Power Amplifier 6-18GHz,Gain:33dB,Psat:36dBm

Feature:

- Ultra Wide Band:6-18GHz
- Gain:33dB Min
- Psat Output Power:34dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	6-18			GHz
Gain	33			dB
Output Psat	36			dBm
Spurious			-50	dBc
Harmonics			-10	dBc
DC Voltage		+28		V DC
DC Supply Current		1.1		A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	J30J-9ZKP	1-4:+28V 5-9:GND
Size	59.1*35.4*7.9	mm
Weight	500	g

Absolute Maximum Ratings:

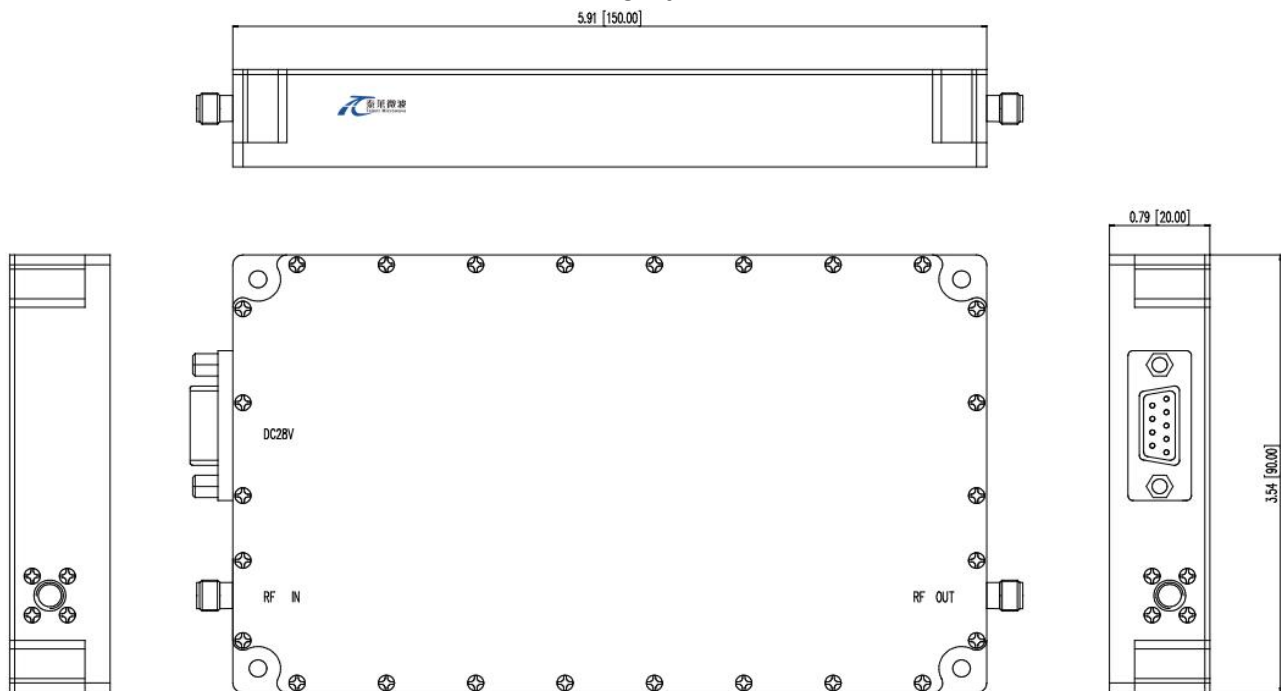
Parameter	Value
Supply Bias Voltage	+13V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



*****Heat Sink Required During Operation**

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

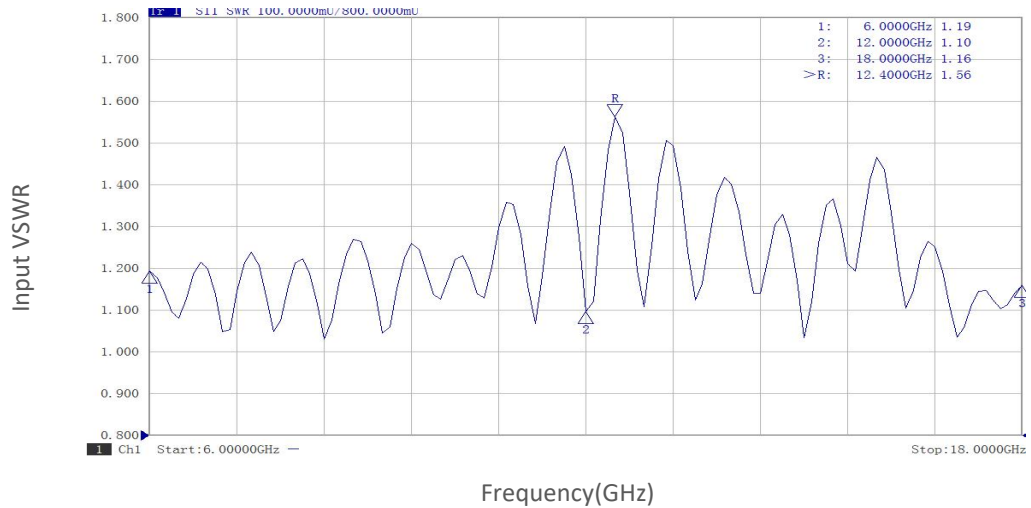
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

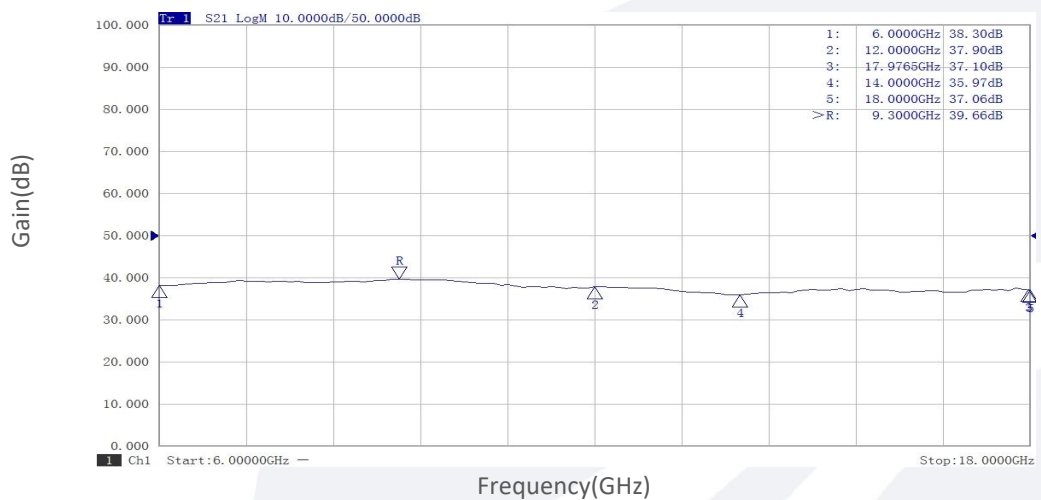
Part Number	Description	Revision
TLPA6G18G-35-36-W	Power amplifier 6-18GHz,Gain33dB,Psat:36dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA6G18G-35-36-W-HS	Power amplifier 6-18GHz,Gain33dB,Psat:36dBm,+28V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

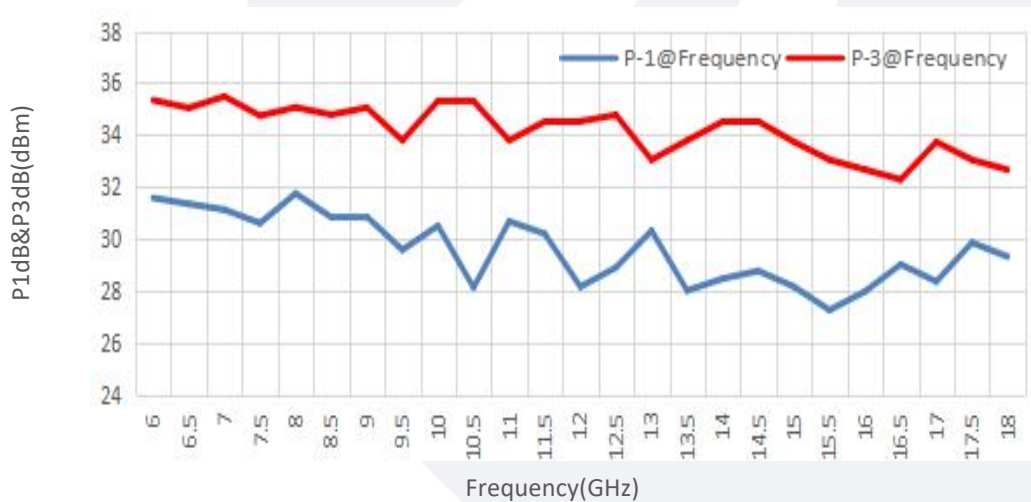
Input VSWR vs Frequency



Gain vs Frequency

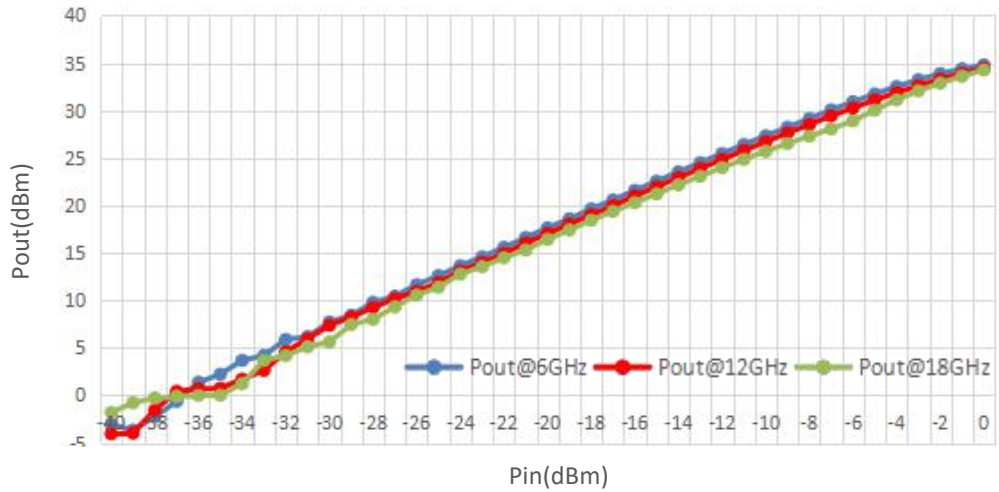


P1dB&P3dB vs Frequency

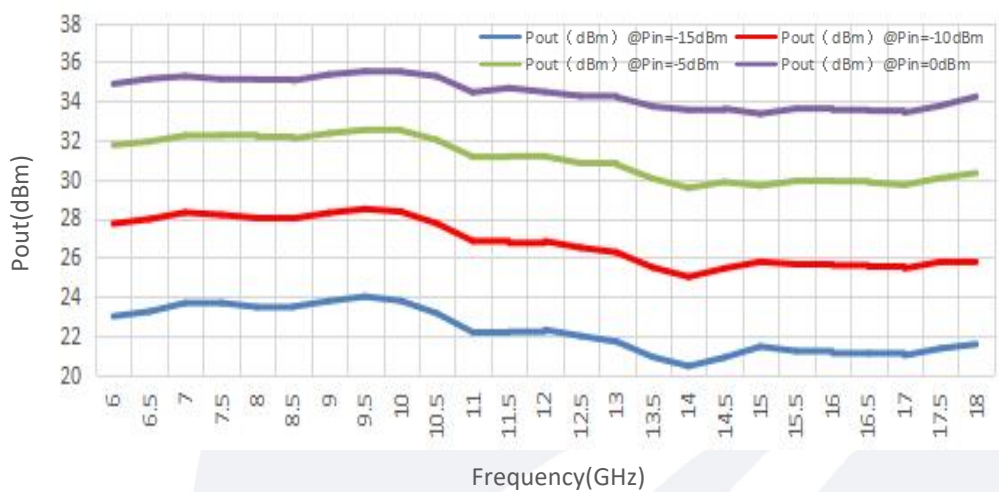


Typical Performance Data:

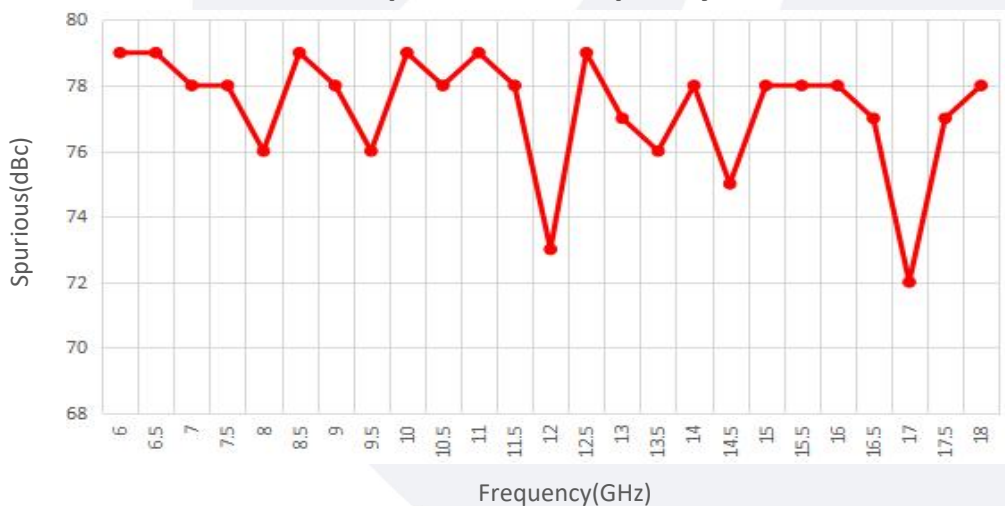
Pout@Pin



Pout@Equal_Pin



Spurious vs Frequency



Typical Performance Data:

Harmonic vs Frequency

