

Model:TLPA0.5G6G-35-30

Power Amplifier

0.5-6GHz,Gain:35dB,P1dB:30dBm,Psat:30dBm

Feature:

- Ultra Wide Band: 0.5-6GHz
- Gain:35dB Typ
- P1dB Output Power:30dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.5-6			GHz
Gain		35		dB
Gain Flatness		±2.5		dB
Output P1dB	28			dBm
Output Psat	30			dBm
Input VSWR		2	2.2	:1
DC Voltage		+12		V DC
DC Supply Current		280		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	100*70*12	mm
Weight	/	g

Absolute Maximum Ratings:

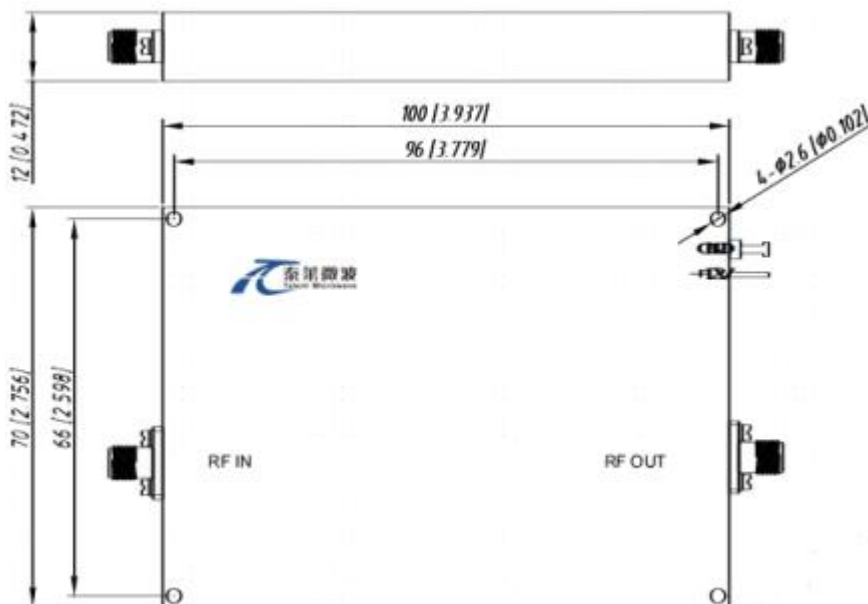
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

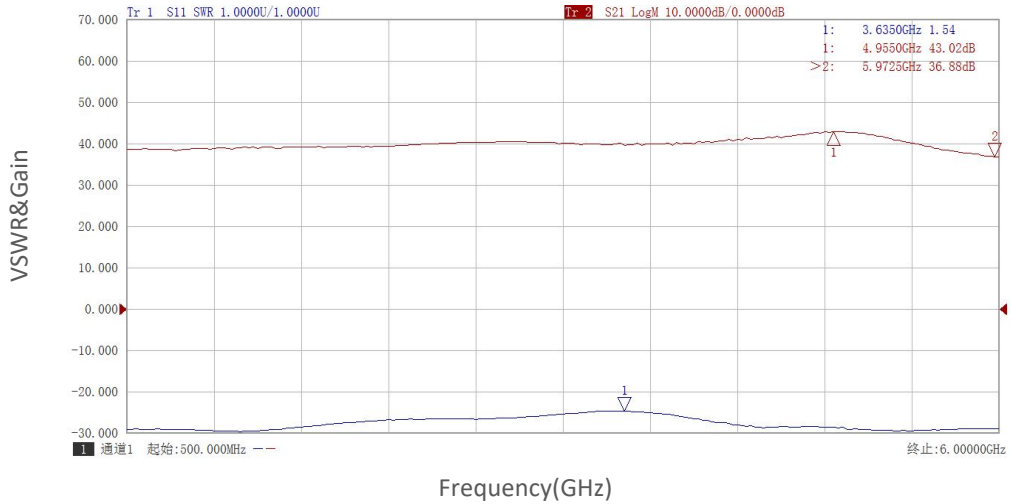
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+70	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

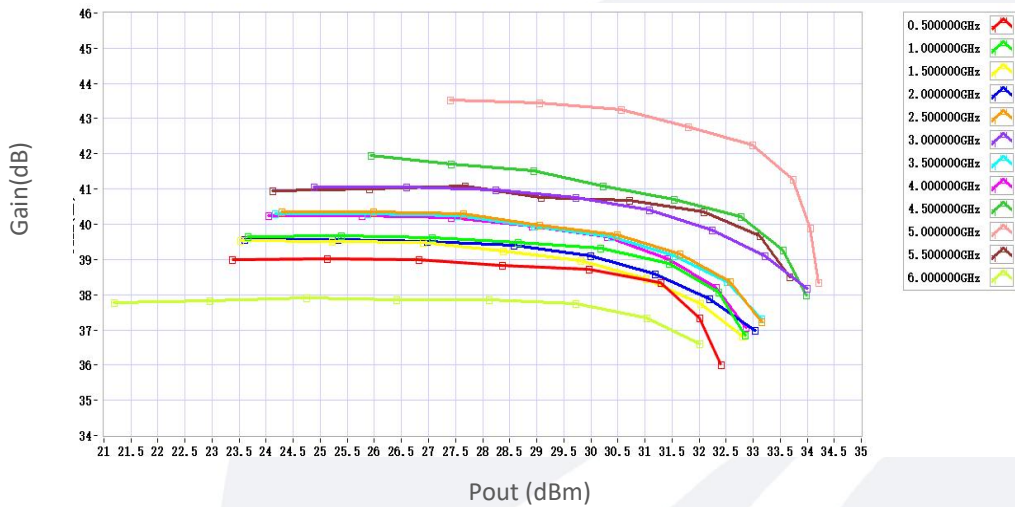
Part Number	Description	Revision
TLPA0.5G6G-35-30	Power amplifier 0.5-6GHz,Gain:35dB,P1dB:28dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA0.5G6G-35-30-HS	Power amplifier 0.5-6GHz,Gain:35dB,P1dB:28dBm,+12V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

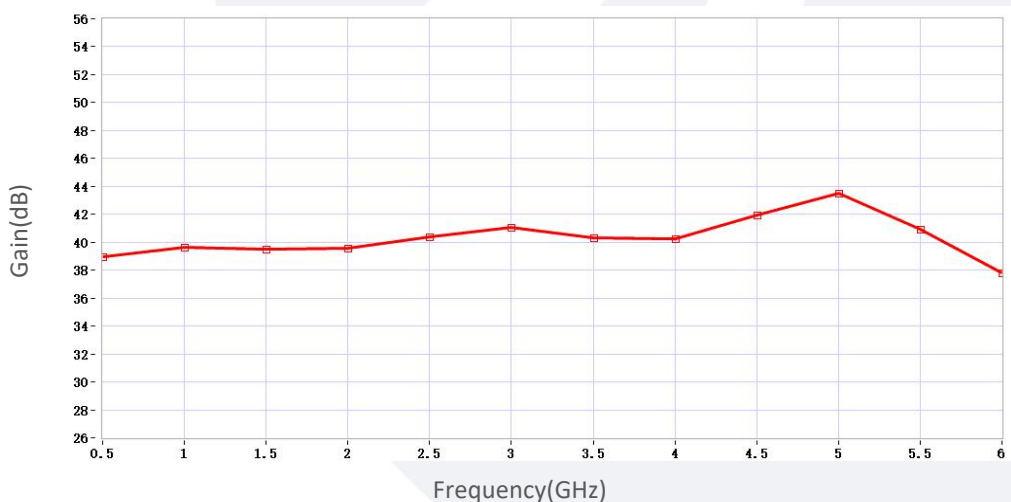
VSWR&Gain vs Frequency



Gain vs Output Power



Gain vs Frequency



Typical Performance Data:

P1dB vs Frequency

