

Model:TLPA8G12G-36-40

Power Amplifier

8-12GHz, Gain:36dB, Psat:40dBm

Feature:

- Ultra Wide Band:8-12GHz
- Gain:36dB Min
- Psat Output Power:40dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	8-12			GHz
Gain	36	40		dB
Gain Flatness		±1	±2	dB
Output P1dB		38		dBm
Output Psat	40	41		dBm
Harmonics		-15		dBc
Input VSWR		1.5	2	:1
DC Voltage		+28		V DC
DC Sopply Current		2.5		A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	110*80*18	mm
Weight	/	g

Absolute Maximum Ratings:

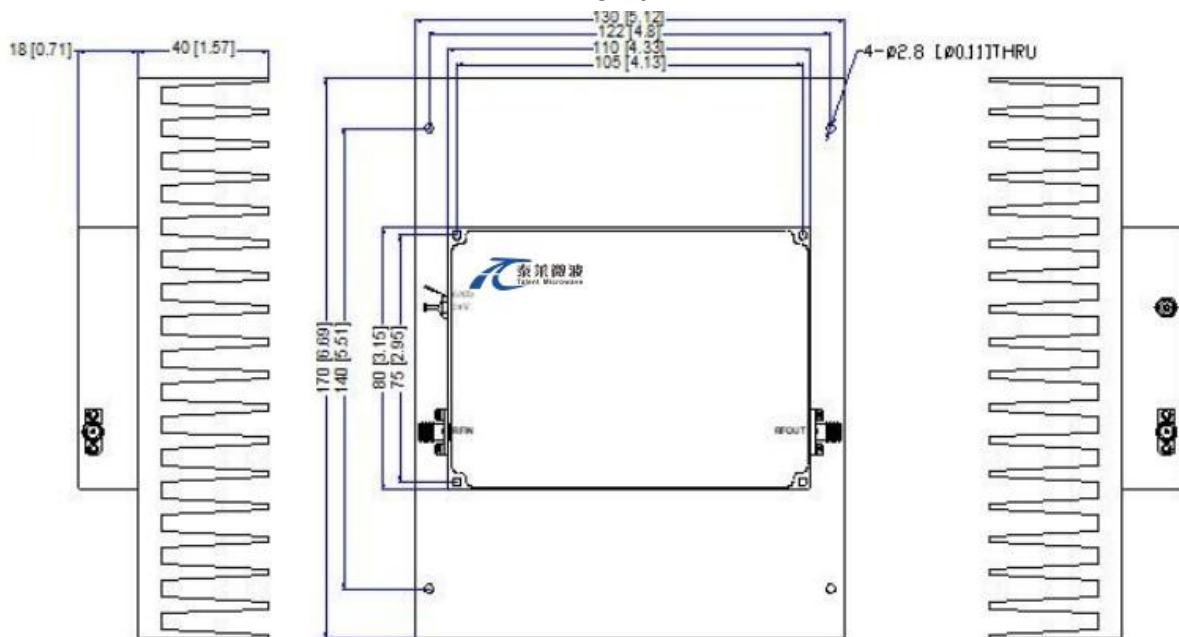
Parameter	Value
Supply Bias Voltage	+28V
RF Input Power	/
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

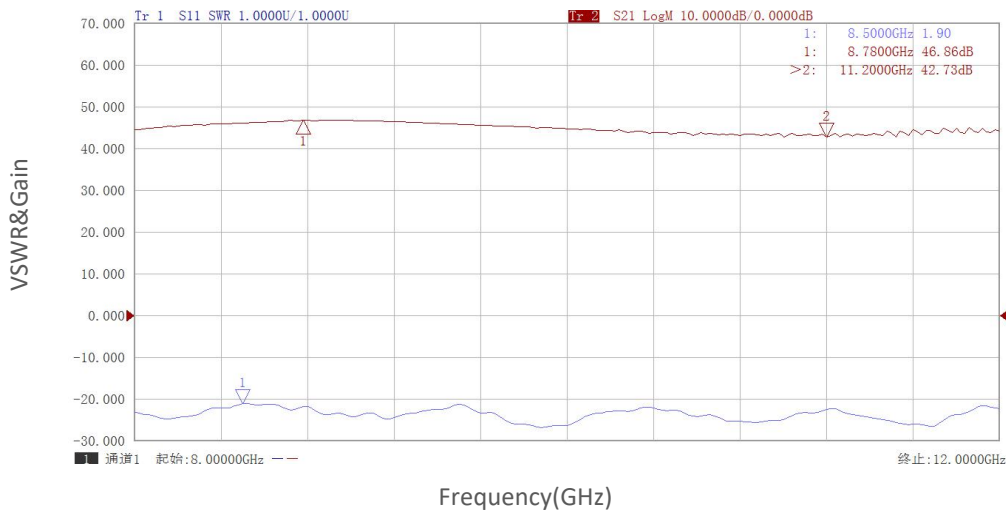
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude		30000		feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

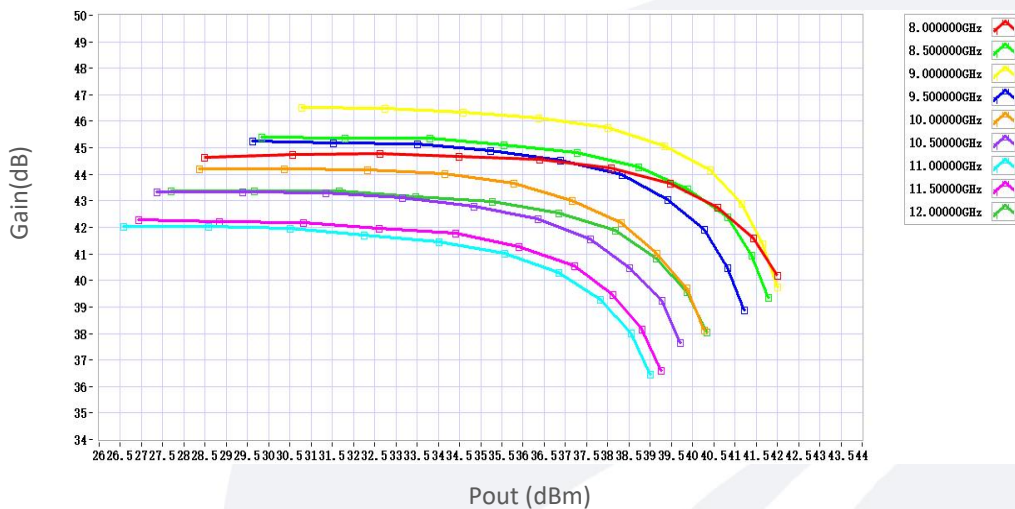
Part Number	Description	Revision
TLPA8G12G-36-40	Power amplifier 8-12GHz,Gain36dB,Psat:40dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA8G12G-36-40-HS	Power amplifier 8-12GHz,Gain36dB,Psat:40dBm,+28V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

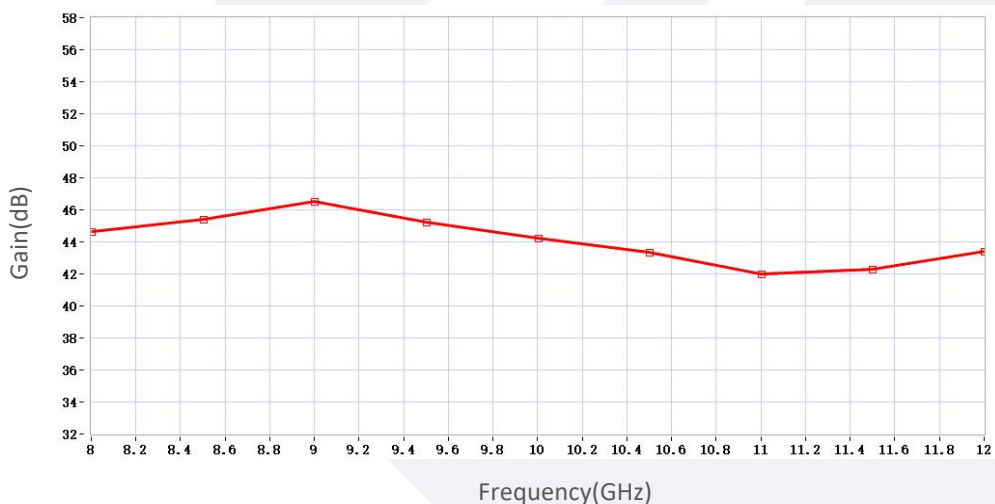
VSWR&Gain vs Frequency



Gain vs Output Power

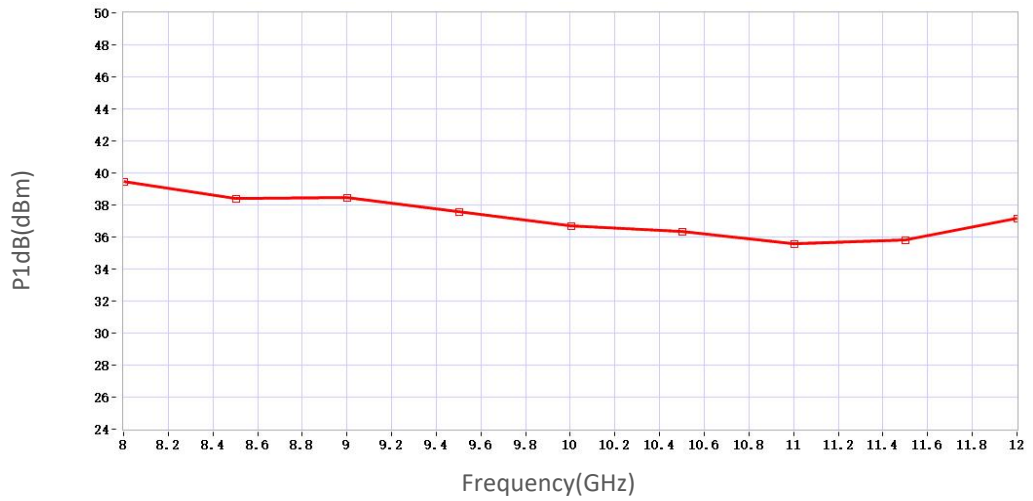


Gain vs Frequency



Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

