

Model:TLPA15G44G-25-20

Power Amplifier
15-44GHz,Gain:25dB,P1dB:20dBm

Feature:

- Ultra Wide Band: 15-44GHz
- Gain:25dB Typ
- P1dB Output Power:20dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	15-44			GHz
Gain		25		dB
Gain Flatness		±2.5		dB
Output P1dB	20			dBm
Input VSWR			2.5	:1
Output VSWR			2.5	:1
DC Voltage	+10	+12	+13	V DC
DC Supply Current		500		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.4 Female/2.4 Female	
DC Bias	Solder Pin	
Size	44*36*12	mm
Weight	/	g

Absolute Maximum Ratings:

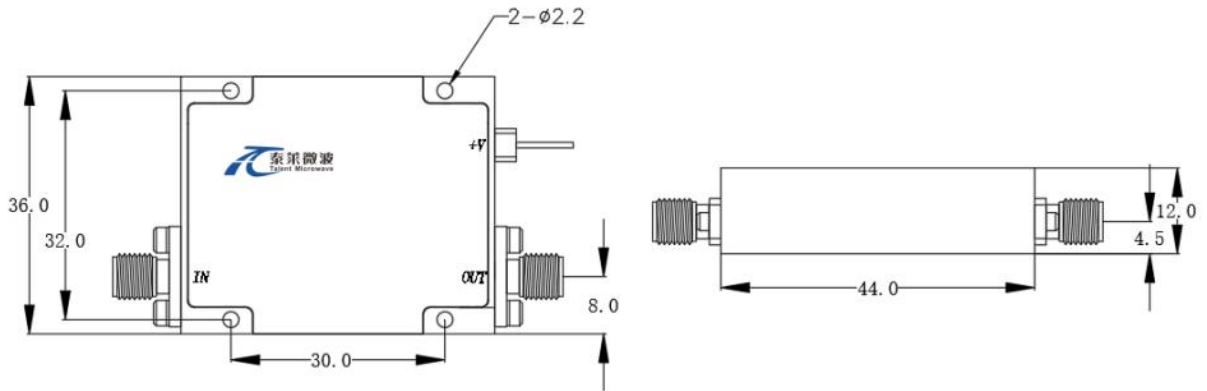
Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	20dBm
ESD sensitivity (HBm)	Class 0, passed 150V



**Available 220V System
Benchtop Amplifier**

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

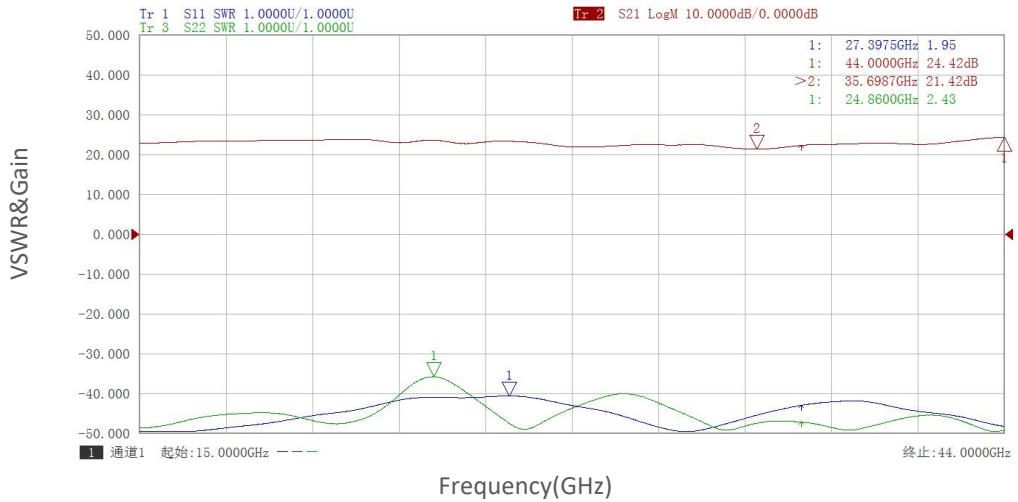
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

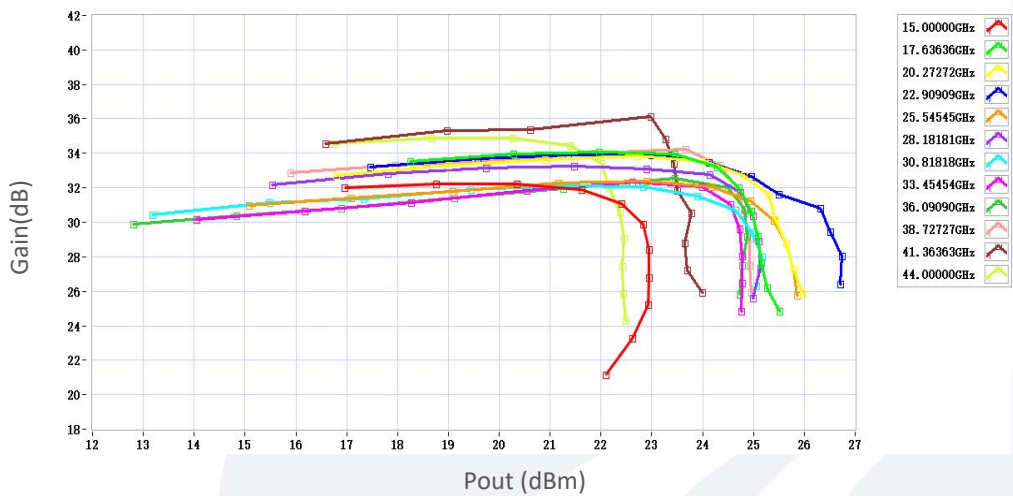
Part Number	Description	Revision
TLPA15G44G-25-20	Power amplifier 15-44GHz,Gain:25dB,P1dB:20dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA15G44G-25-20-HS	Power amplifier 15-44GHz,Gain:25dB,P1dB:20dBm,+12V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

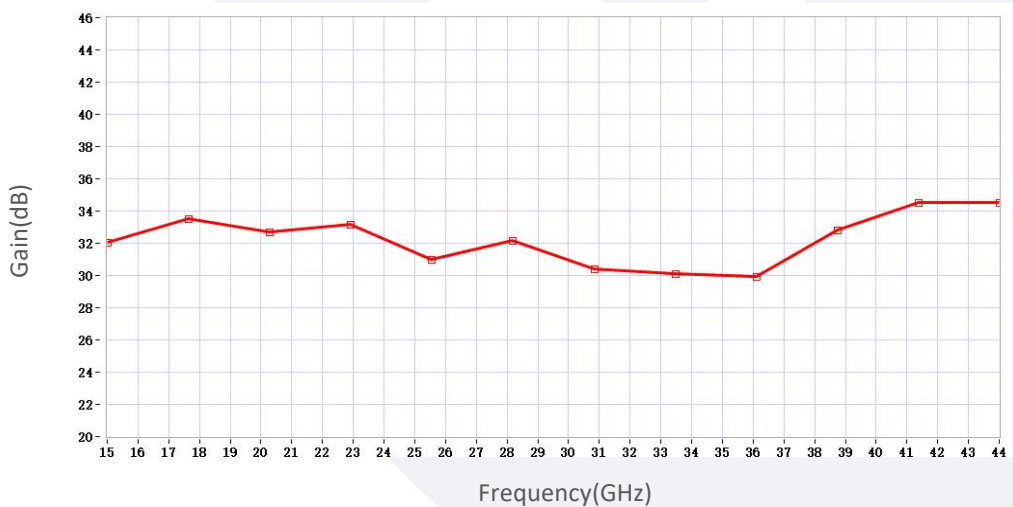
VSWR&Gain vs Frequency



Gain vs Output Power

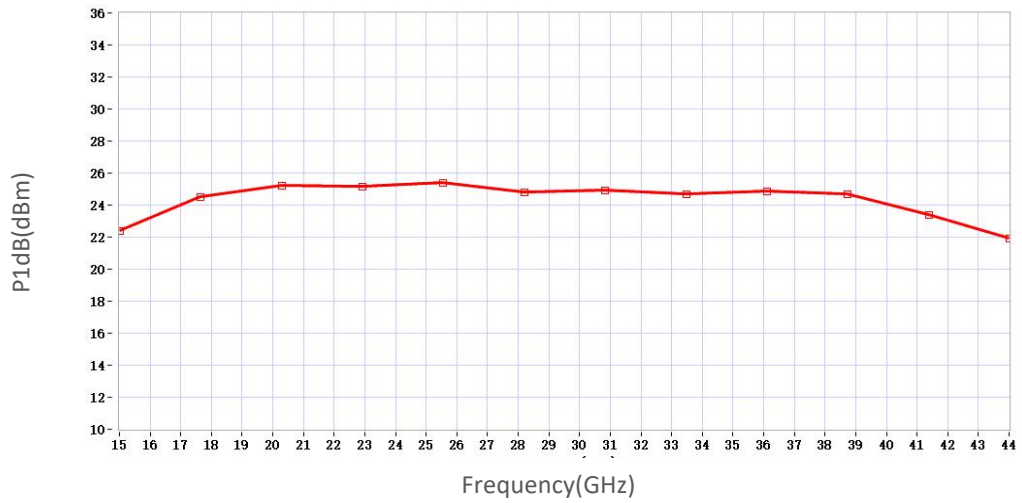


Gain vs Frequency



Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

