

Model:TLPA0.7G20G-32-22

Power Amplifier

0.7-20GHz,Gain:32dB,P1dB:23dBm

Feature:

- Ultra Wide Band: 0.7-20GHz
- Gain: 32 dB Typ
- Output P1dB: 23 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.7-20			GHz
Gain	30	32		dB
Gain Flatness		±2		dB
Output P1dB	22	23		dBm
Noise Figure		3	4.5	dB
Input VSWR		1.5		:1
Output VSWR		1.5		:1
DC Voltage	+12			V DC
DC Supply Current	0.3			A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female	
DC Bias	Solder Pin	
Size	44*36*11	mm
Weight	50	g

Absolute Maximum Ratings:

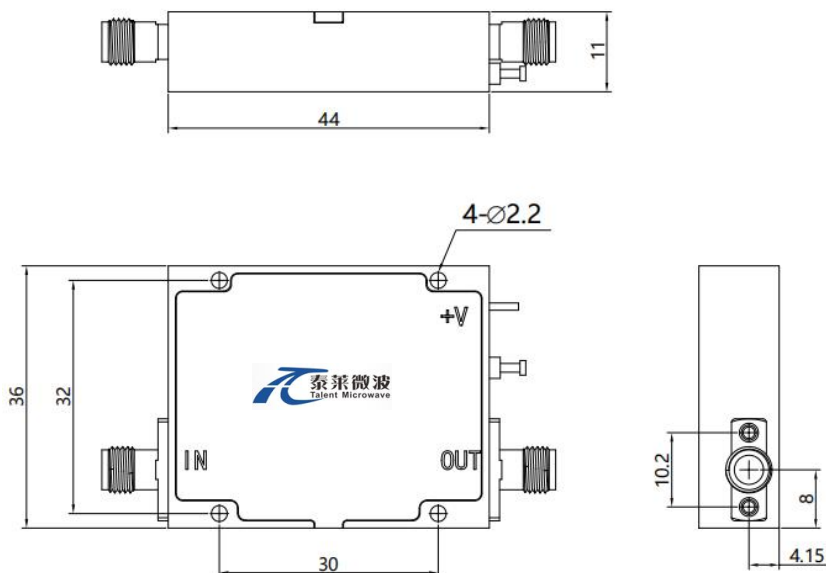
Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	+15 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

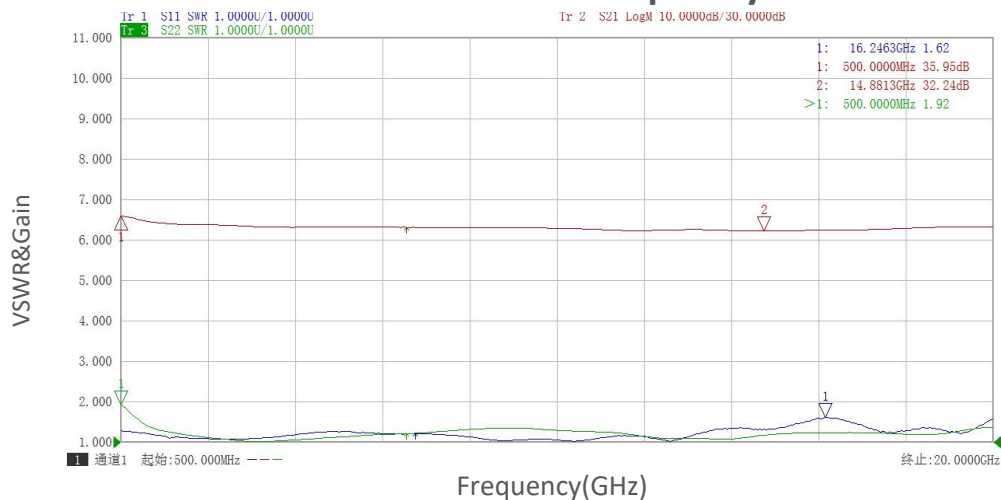
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+75	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

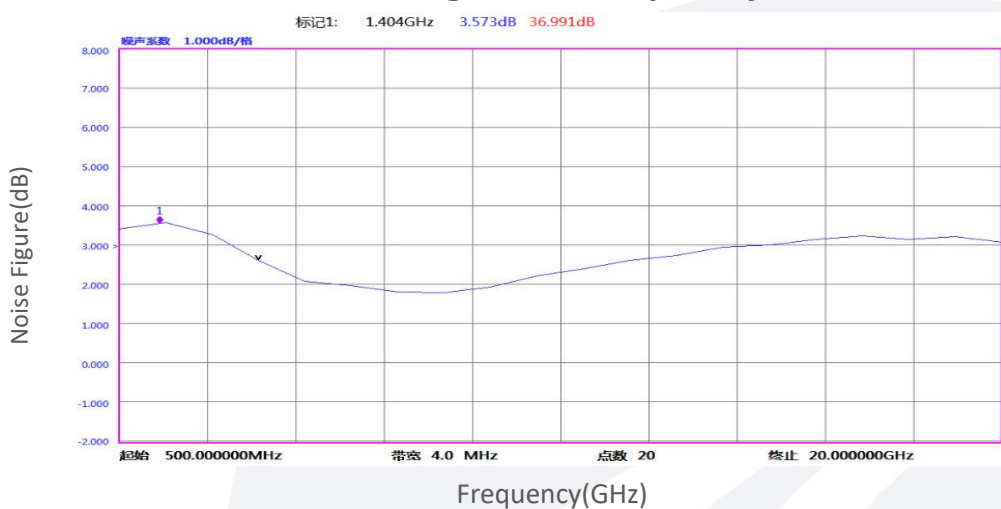
Part Number	Description	Revision
TLPA0.7G20G-32-22	Power amplifier 0.7-20GHz,Gain:32dB,P1dB:23dBm, +12V DC,Without Heatsink	Rev.1.1
TLPA0.7G20G-32-22-HS	Power amplifier 0.7-20GHz,Gain:32dB, P1dB:23dBm, +12V DC,With Heatsink	Rev.1.1

Typical Performance Data:

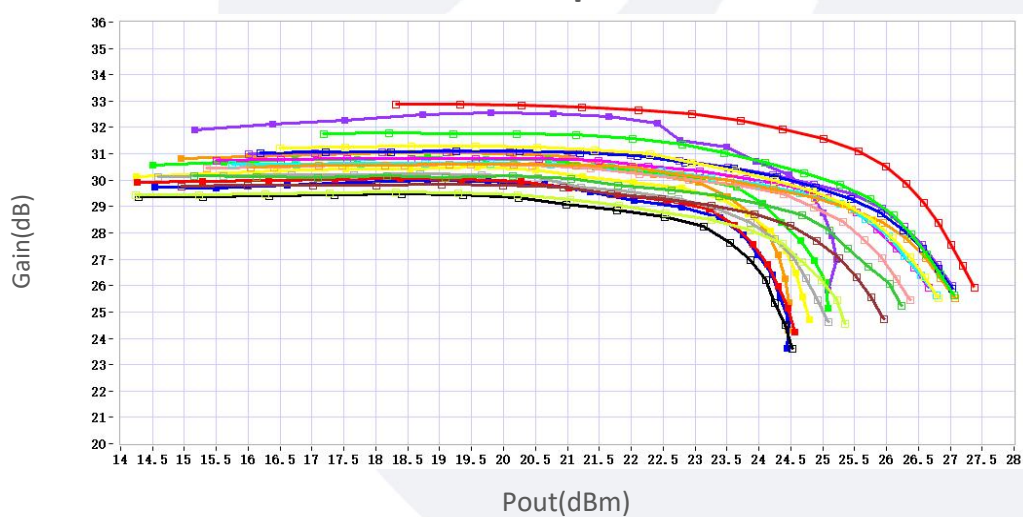
VSWR&Gain vs Frequency



Noise Figure vs Frequency

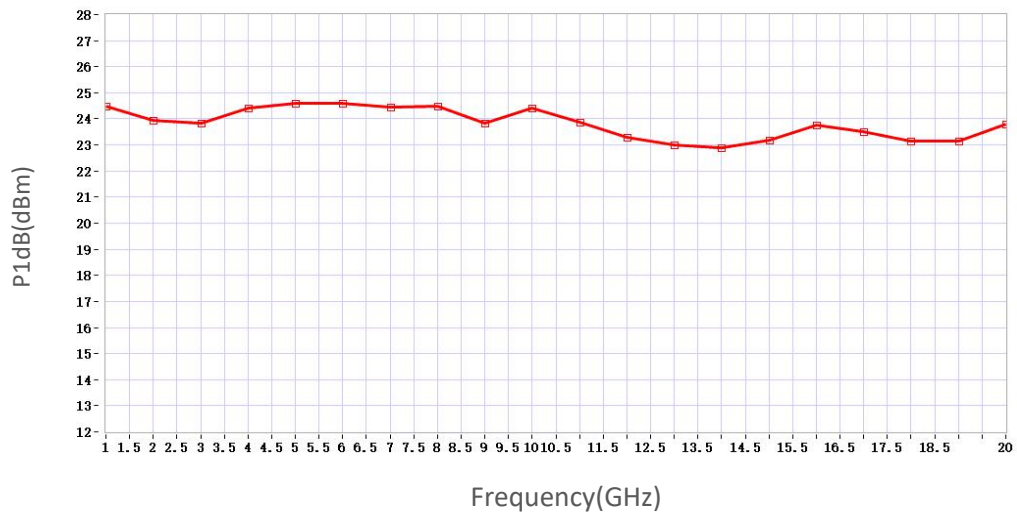


Gain vs Output Power



Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

