泰莱微波
Talent Microwave

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Model:TLPA50K20G-32-22

Power Amplifier 50KHz-20GHz,Gain:32dB,P1dB:22dBm

Feature:

- Ultra Wide Band: 50KHz-20GHz
- Gain: 32 dB Typ
- P1dB Output Power: 22 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		50KHz-20GHz		
Gain		32		dB
Gain Flatness		±2		dB
Output P1dB	20	22		dBm
Noise Figure		3		dB
Input VSWR		2.2		:1
Output VSWR		2.2		:1
DC Voltage	+10	+12	+13	V DC
DC Supply Current		240		mA
Impedance		50		Ohms

Mechanical Specifications:

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

Absolute Maximum Ratings:

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

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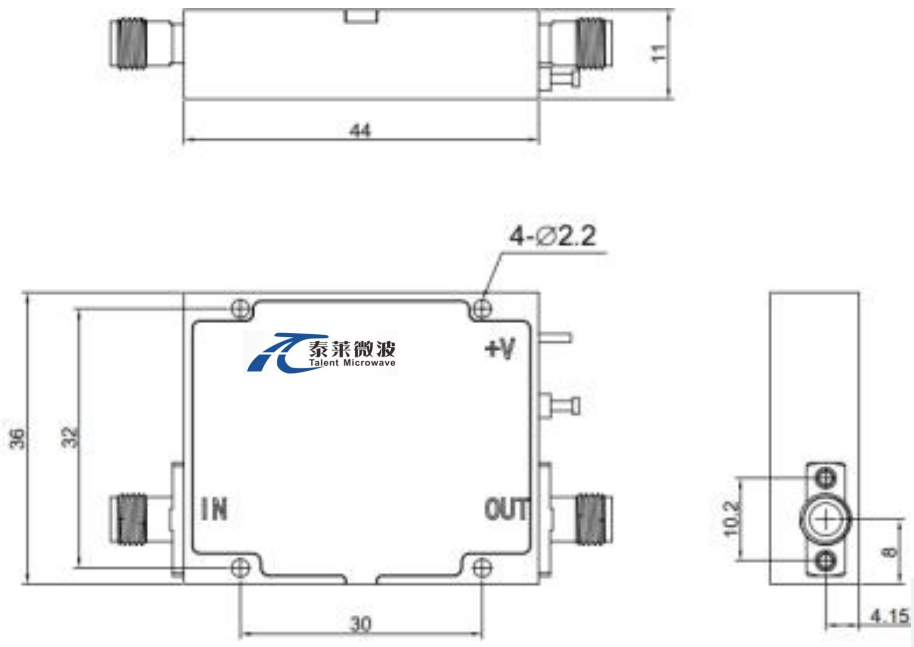
Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	℃
Non-operating Temperature	-55		+125	℃
Relative humidity		95		%
Altitude	50,000			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
TLPA50K20G-32-22	Power amplifier 50KHz-20GHz,Gain:32dB,P1dB:22dBm, +12V DC,Without Heatsink	Rev.1.1
TLPA50K20G-32-22-HS	Power amplifier 50KHz-20GHz,Gain:32dB,P1dB:22dBm, +12V DC,With Heatsink	Rev.1.1

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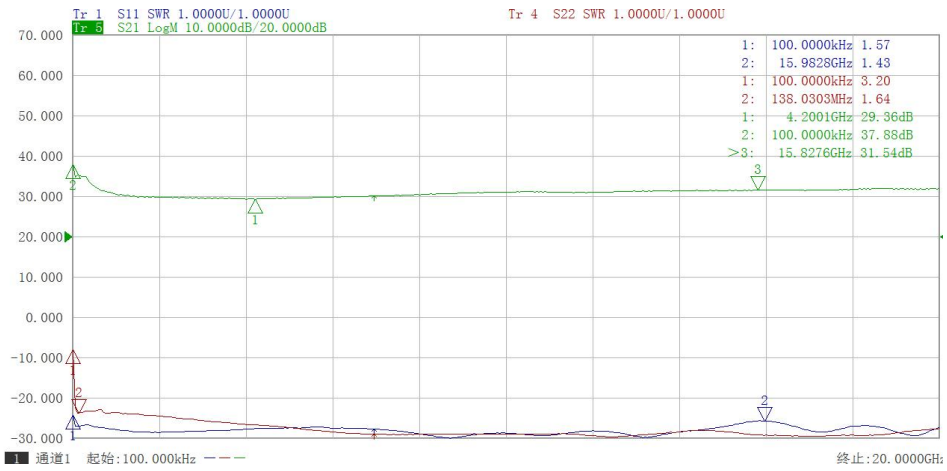
Typical Performance Data:

VSWR&Gain vs Frequency



VSWR&Gain

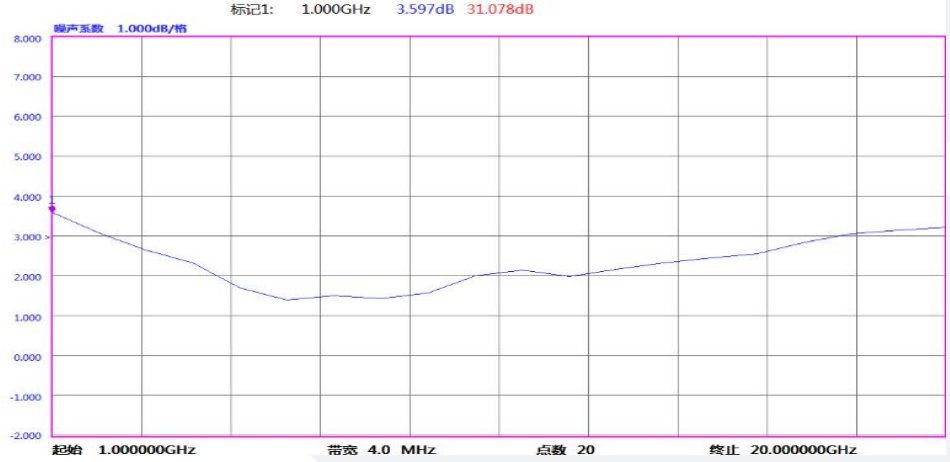
Frequency(GHz)

Noise Figure vs Frequency

Noise Figure(dB)

Frequency(GHz)

Noise Figure vs Frequency



Noise Figure(dB)

Frequency(GHz)

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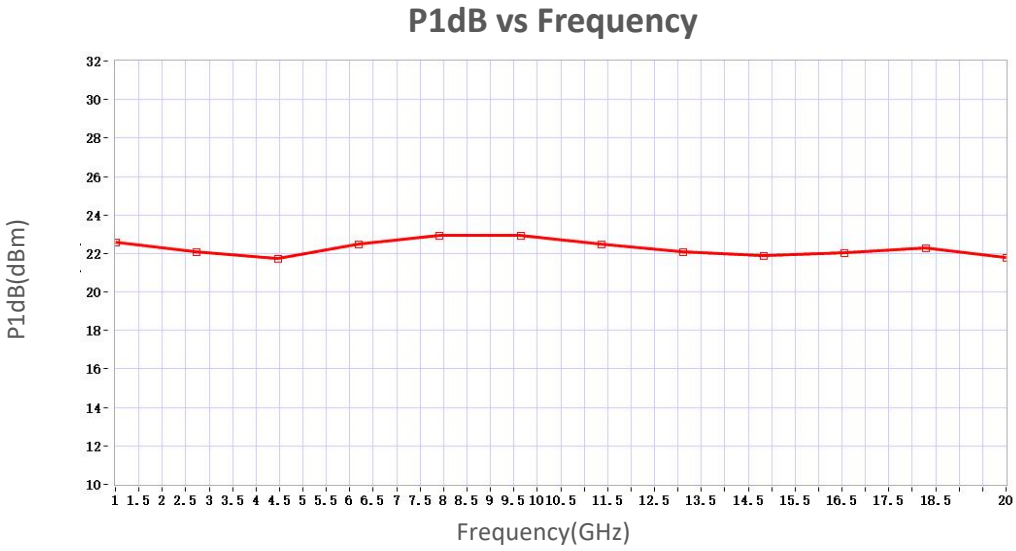
Typical Performance Data: