

Model:TLPA50K20G-28-20

Power Amplifier 50KHz-20GHz,Gain:28dB,Psat:20dBm

Feature:

- Ultra Wide Band: 50KHz-20GHz
- Gain: 28 dB Typ
- Psat Output Power: 20 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	50KHz-20GHz			
Gain		28		dB
Gain Flatness			±1.5	dB
Output Psat	18.5	20		dBm
Noise Figure		3		dB
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		+8		V DC
DC Supply Current		120		mA
Impedance		50		Ohms

Mechanical Specifications:

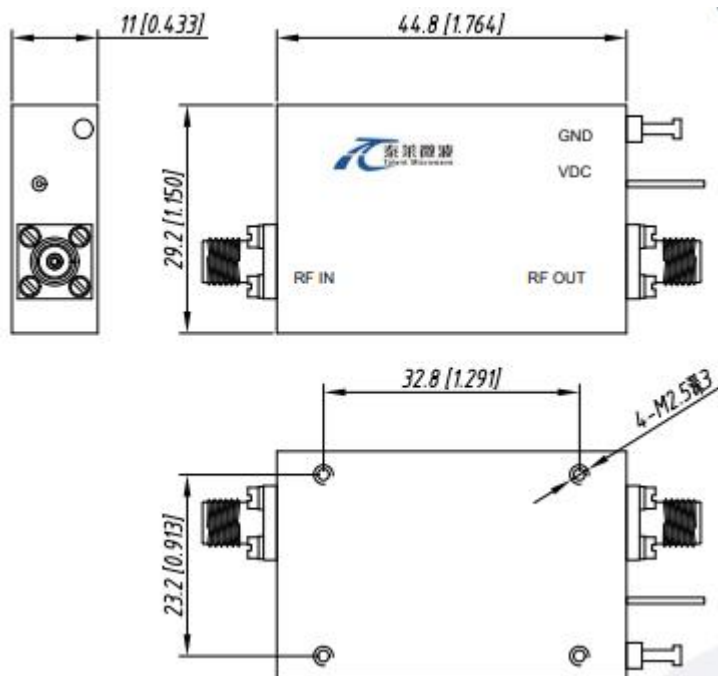
Parameter	Value	Units
Input /Output Connector	SMA Female	
DC Bias	Solder Pin	
Size	44.8*32.8*11	mm
Weight	/	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+10V
RF Input Power	12 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

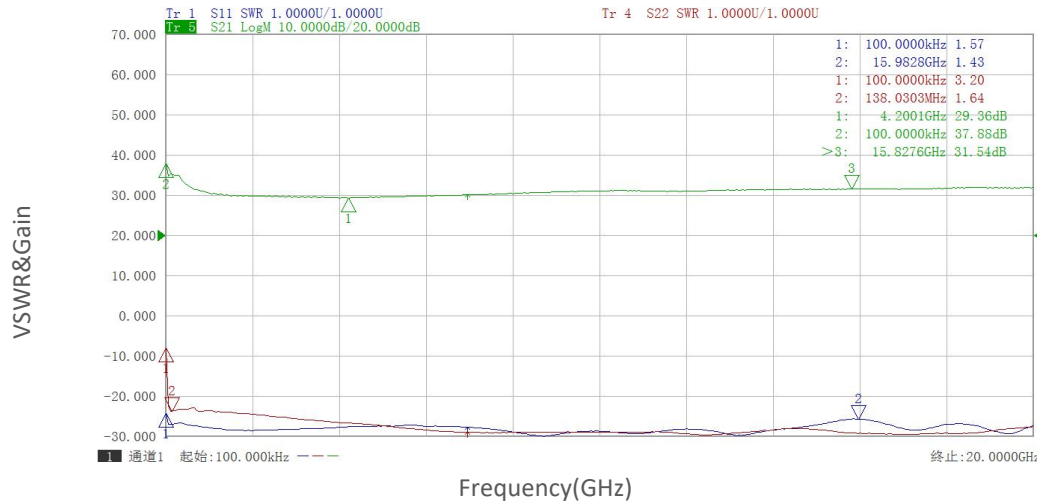
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

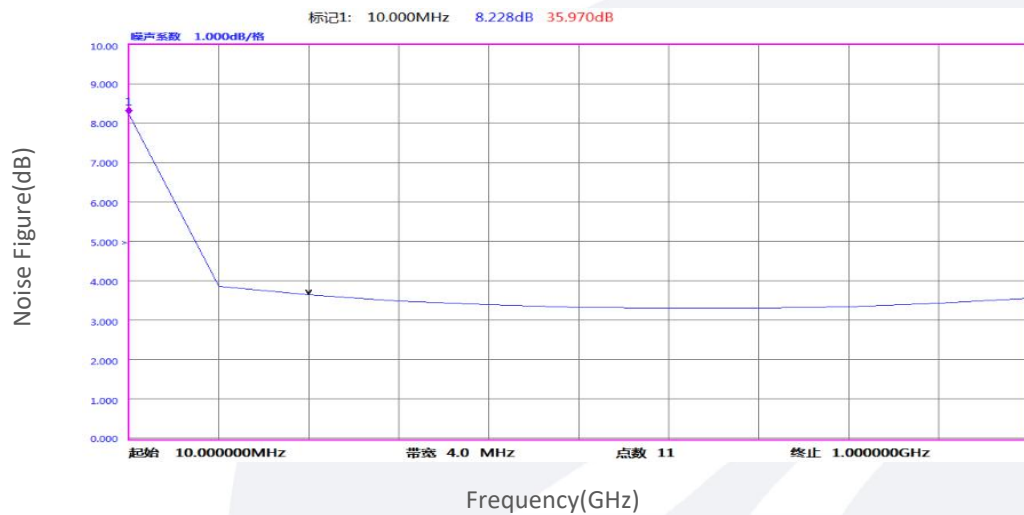
Part Number	Description	Revision
TLPA50K20G-28-20	Power amplifier 50KHz-20GHz,Gain:28dB,Psat:20dBm, +8V DC,Without Heatsink	Rev.1.1
TLPA50K20G-28-20-HS	Power amplifier 50KHz-20GHz,Gain:28dB,Psat:20dBm, +8V DC,With Heatsink	Rev.1.1

Typical Performance Data:

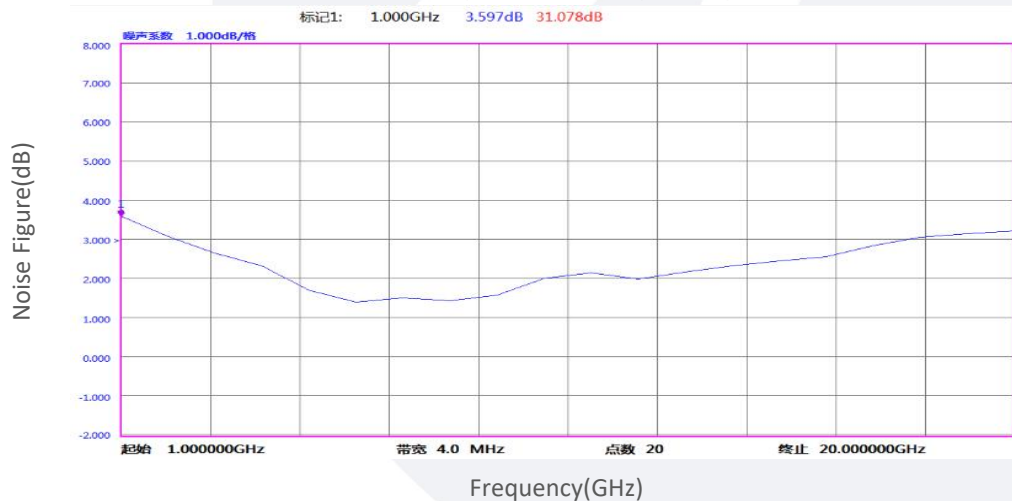
VSWR&Gain vs Frequency



Noise Figure vs Frequency



Noise Figure vs Frequency



Typical Performance Data:

P1dB vs Frequency

