泰莱微波
Talent Microwave

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Model:TLLA50K43G-15-50

Low Noise Amplifier
50KHz-43GHz, NF:5.0dB, Gain:15dB

Feature:

- Ultra Wide Band: 50KHz-43GHz
- Gain: 15dB Typ
- Noise Figure: 5.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		50KHz-43GHz		GHz
Gain		15		dB
Noise Figure		5		dB
Output P1dB		14		dBm
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage		+12		V DC
DC Supply Current		100		mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
DC Bias	Solder Pin	
Size	44.8*29.2*11	mm
Weight	/	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System
Benchtop Amplifier

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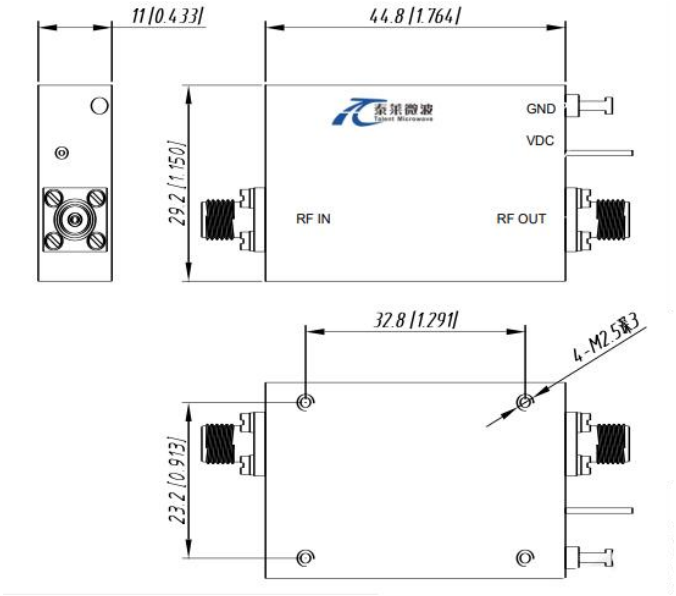
Outline Drawing:

Unit: mm(inches)



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+85	℃
Non-operating Temperature	-55		+125	℃
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
TLLA50K43G-15-50	Low Noise Amplifier, 50KHz-43GHz, Noise Figure:5.0dB, Gain:15 dB,+12V DC,Without Heatsink	Rev.1.1
TLLA50K43G-15-50-HS	Low Noise Amplifier, 50KHz-43GHz, Noise Figure:5.0dB, Gain:15 dB,+12V DC,With Heatsink	Rev.1.1

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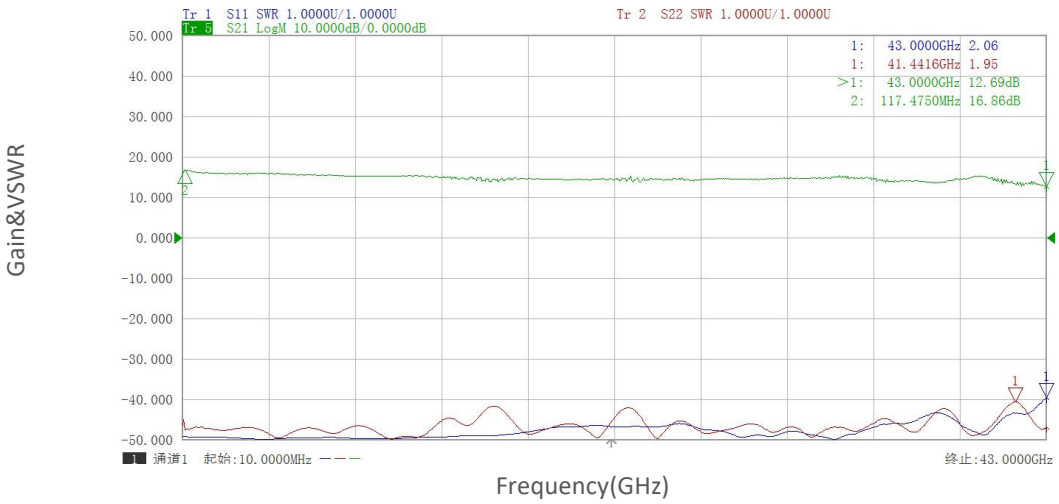
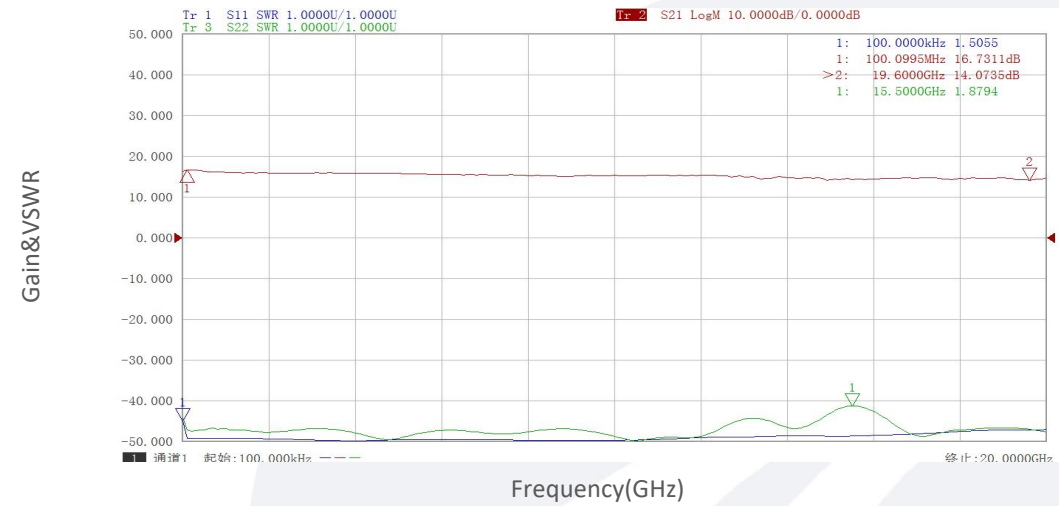
Typical Performance Data:

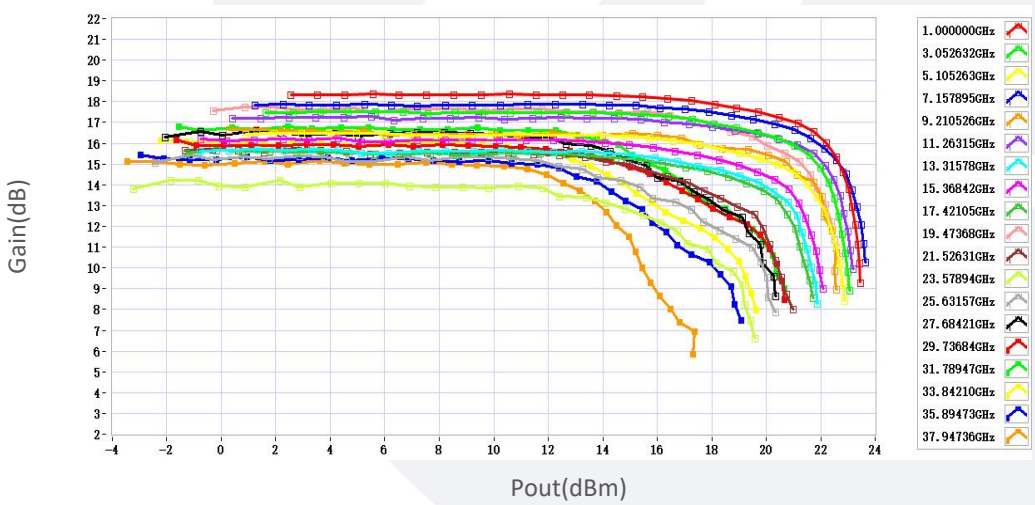
Gain&VSWR vs Frequency



Gain&VSWR vs Frequency



Gain vs Output Power



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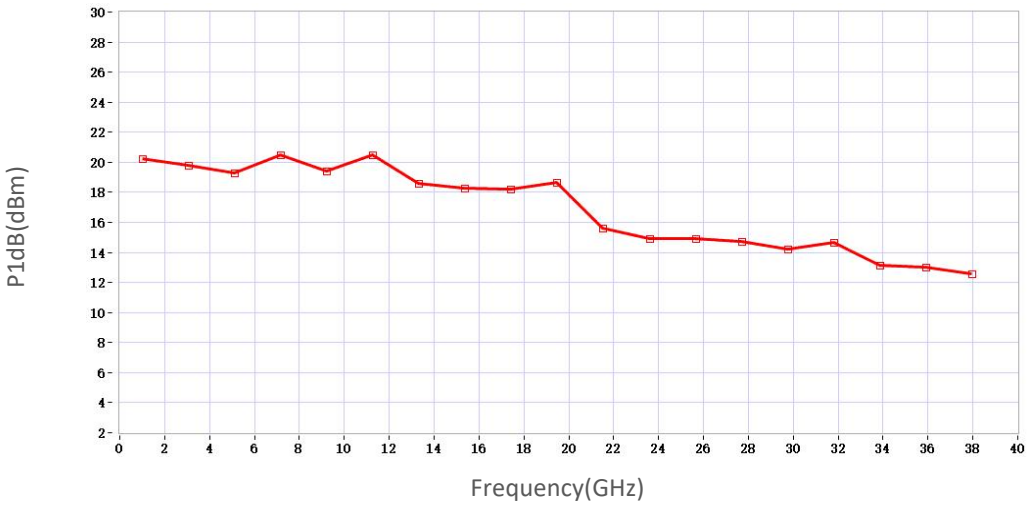
Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

Noise Figure vs Frequency