泰莱微波
Talent Microwave

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Model:TLLA5G11G-19-30

Low Noise Amplifier
5-11GHz, NF:2.5dB, Gain:19dB,P1dB:16dBm

Feature:

- Ultra Wide Band: 5-11GHz
- Gain: 19dB Typ
- Noise Figure: 2.5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		5-11		GHz
Gain		19		dB
Gain Flatness		±1.5		dB
Noise Figure		2.5		dB
Output P1dB		16		dBm
Input VSWR		1.7		:1
Output VSWR		1.5		:1
DC Voltage		8	12	V DC
DC Supply Current		80		mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	20*30*8	mm
Weight	/	g

Absolute Maximum Ratings:

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

Available 220V System
Benchtop Amplifier

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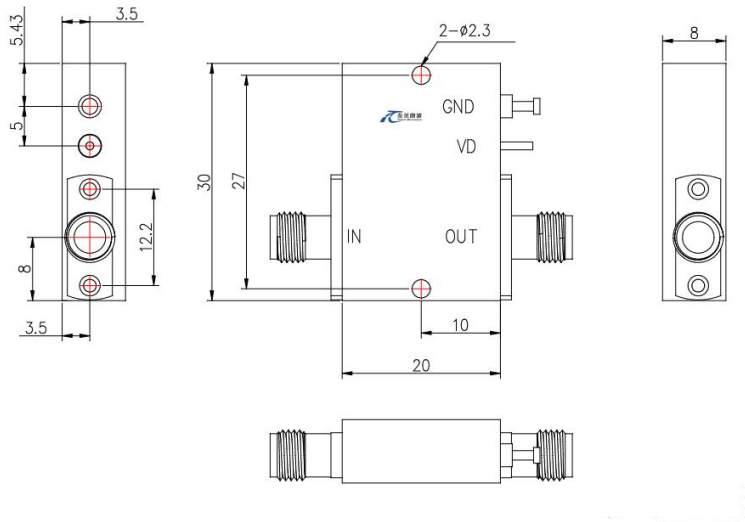
Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-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
TLLA5G11G-19-30	Low Noise Amplifier, 5-11GHz, Noise Figure:2.5dB, Gain:19 dB,P1dB:16dBm,+8V DC,Without Heatsink	Rev.1.1
TLLA5G11G-19-30-HS	Low Noise Amplifier, 5-11GHz, Noise Figure:2.5dB, Gain:19 dB,P1dB:16dBm,+8V DC,With Heatsink	Rev.1.1

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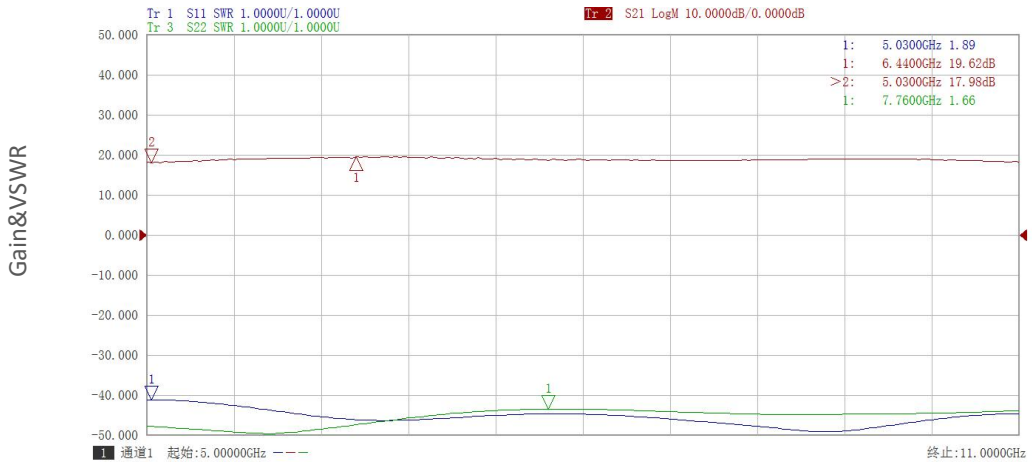
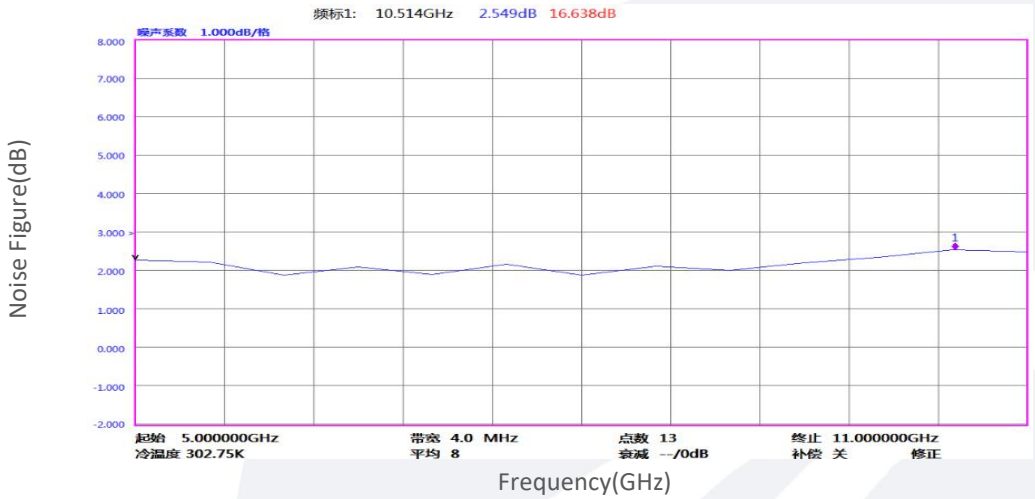
Typical Performance Data:

Gain&VSWR vs Frequency



Noise Figure vs Frequency



P1dB vs Frequency