泰莱微波
Talent Microwave

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Model:TLLA10M3G-44-20

Low Noise Amplifier
0.01-3GHz, NF:2.0dB, Gain:44dB,P1dB:20dBm

Feature:

- Ultra Wide Band: 0.01-3GHz
- Gain: 44dB Typ
- Noise Figure: 2.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		0.01-3		GHz
Gain	42	44		dB
Gain Flatness		±2.0		dB
Noise Figure	1.5	2		dB
OutputP1dB		20		dBm
Input VSWR		1.8		:1
Output VSWR		1.8		:1
DC Voltage		+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	44.8*29.2*11	mm
Weight	55	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+12V
RF Input Power	15 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System Benchtop Amplifier

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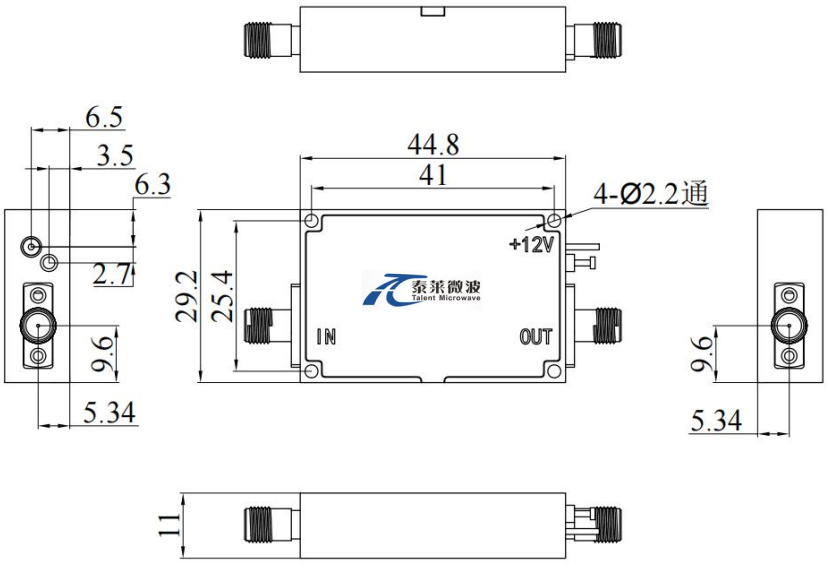
Outline Drawing:

Unit: mm(inches)



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-25		+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
TLLA10M3G-44-20	Low Noise Amplifier, 0.01-3GHz, Noise Figure:2.0dB, Gain:44 dB,P1dB:20dBm,12V DC,Without Heatsink	Rev.1.1
TLLA10M3G-44-20-HS	Low Noise Amplifier, 0.01-3GHz, Noise Figure:2.0dB, Gain:44 dB,P1dB:20dBm,12V DC,With Heatsink	Rev.1.1

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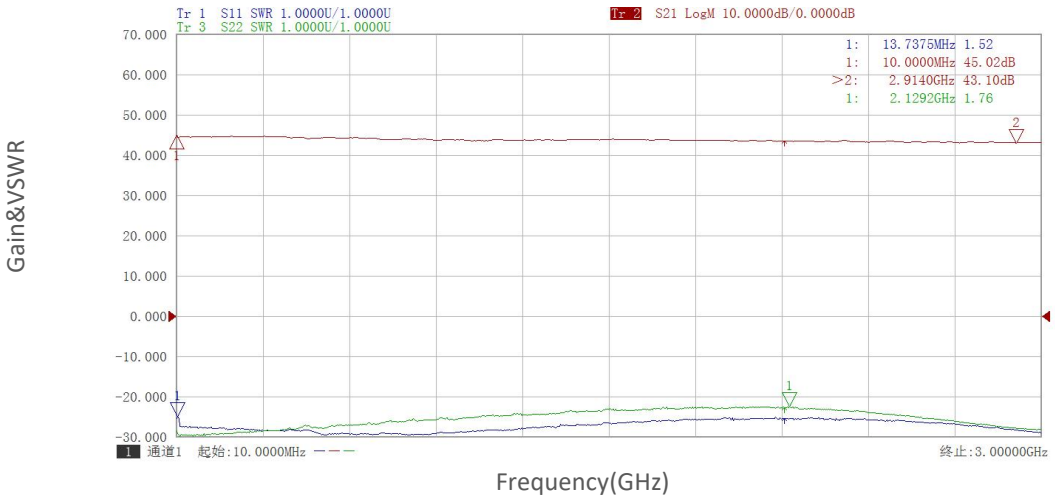
Typical Performance Data:

Gain&VSWR vs Frequency



Noise Figure vs Frequency