

Model: TLLA12G18G-24-11
Low Noise Amplifier
12-18GHz, NF:1.1dB, Gain:24dB, P1dB:13dBm
Feature:

- Ultra Wide Band: 12-18GHz
- Gain: 24dB Typ
- Noise Figure: 1.1dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	12-18			GHz
Gain	20	24		dB
Gain Flatness		±1.6	±2	dB
Noise Figure		1.1	1.6	dB
Output P1dB	10	13		dBm
Output Psat		14		dBm
Input VSWR		1.8	2.0	:1
Output VSWR		1.8	2.0	:1
DC Voltage	5	8	12	V DC
DC Supply Current		35		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	20*28*10	mm
Weight	/	g

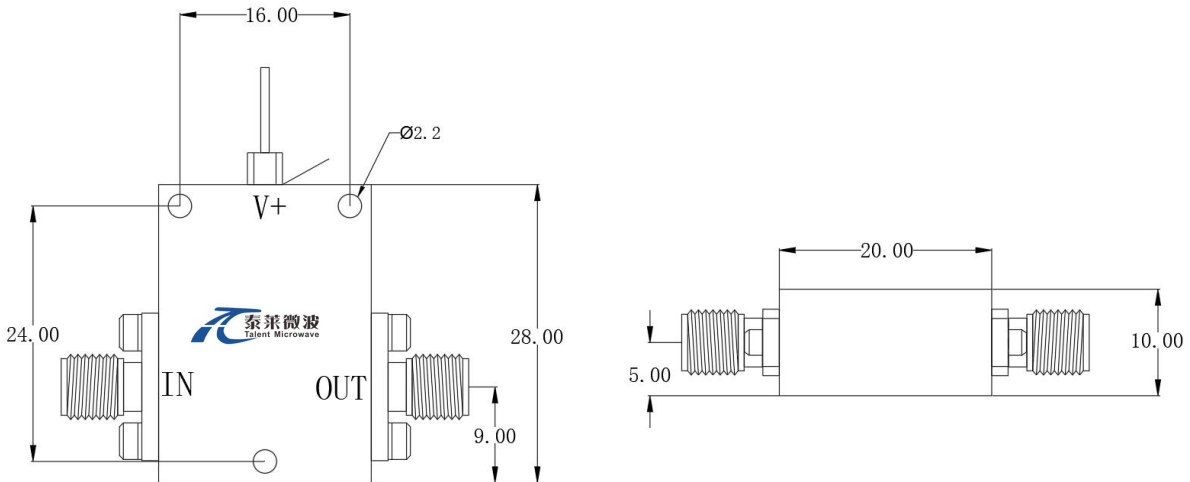
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+12V
RF Input Power	5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
Benchtop Amplifier**

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		10,000		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
TLLA12G18G-24-11	Low Noise Amplifier, 12-18GHz, Noise Figure:1.1dB, Gain:24 dB,P1dB:13dBm,+8V DC,Without Heatsink	Rev.1.1
TLLA12G18G-24-11-HS	Low Noise Amplifier, 12-18GHz, Noise Figure:1.1dB, Gain:24 dB,P1dB:13dBm,+8V DC,With Heatsink	Rev.1.1