

Model:TLLA8G12G-30-10
Low Noise Amplifier
8-12GHz, NF:1.0dB, Gain:30dB,P1dB:9dBm
Feature:

- Ultra Wide Band: 8-12GHz
- Gain: 30dB Min
- Noise Figure: 1.0dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	8-12			GHz
Gain	30			dB
Gain Flatness		±0.5		dB
Noise Figure			1	dB
Output P1dB	9			dBm
Input VSWR			2	:1
Output VSWR			2	:1
DC Voltage		12		V DC
DC Supply Current		50		mA
Impedance	50			Ohms

Mechanical Specifications:

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

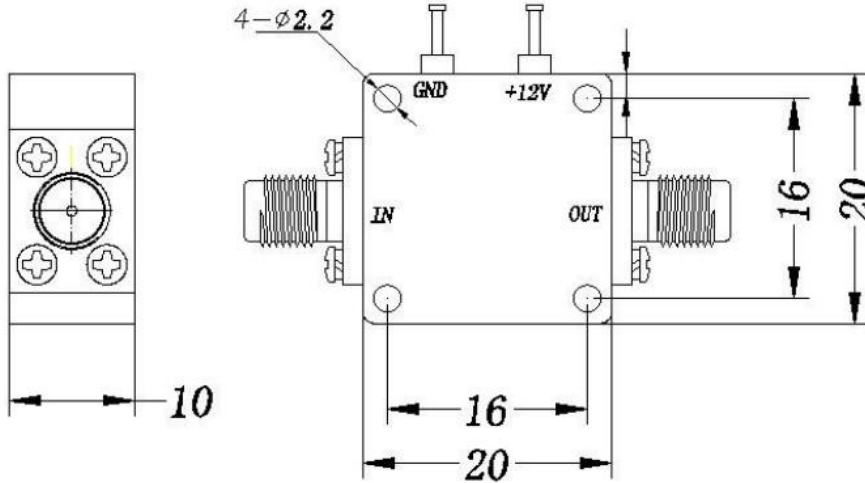
Absolute Maximum Ratings:

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


**Available 220V System
Benchtop Amplifier**

Outline Drawing:

Unit: mm(inches)



*****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)	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
TLLA8G12G-30-10	Low Noise Amplifier, 8-12GHz, Noise Figure:1.0dB, Gain:30 dB,P1dB:9dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA8G12G-30-10-HS	Low Noise Amplifier, 8-12GHz, Noise Figure:1.0dB, Gain:30 dB,P1dB:9dBm,+12V DC,With Heatsink	Rev.1.1