

Model: TLLA2G8G-50-9

Low Noise Amplifier

2-8GHz, NF:0.9dB, Gain:50dB, P1dB:13dBm

Feature:

- Ultra Wide Band: 2-8GHz
- Gain: 50dB Min
- Noise Figure: 0.9dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	2-8			GHz
Gain		50		dB
Gain Flatness		±1.5		dB
Noise Figure		0.9	1	dB
Output P1dB		13		dBm
Output Psat		14		dBm
Input VSWR		1.8		:1
Output VSWR		1.8		:1
DC Voltage		5	8	V DC
DC Supply Current		140		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	/	g

Absolute Maximum Ratings:

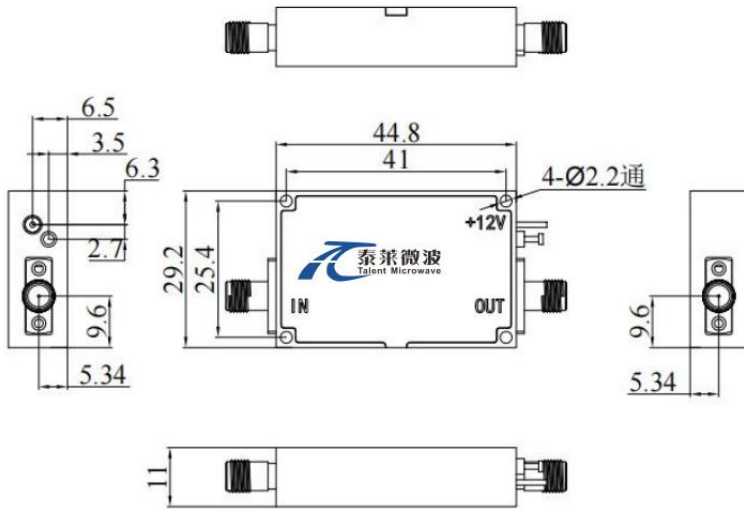
Parameter	Value
Supply Bias Voltage	+8 V
RF Input Power	5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



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
TLLA2G8G-50-9	Low Noise Amplifier, 2-8GHz, Noise Figure:0.9dB, Gain:50 dB,P1dB:13dBm,+5V DC,Without Heatsink	Rev.1.1
TLLA2G8G-50-9-HS	Low Noise Amplifier, 2-8GHz, Noise Figure:0.9dB, Gain:50 dB,P1dB:13dBm,+5V DC,With Heatsink	Rev.1.1