

**Model: TLLA4G8G-25-20**
**Low Noise Amplifier**
**4-8GHz, NF:2dB, Gain:25dB, P1dB:12dBm**
**Feature:**

- Ultra Wide Band: 4-8GHz
- Gain: 25dB Min
- Noise Figure: 2dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	4-8			GHz
Gain	25			dB
Gain Flatness		±2.0		dB
Noise Figure		2.0		dB
Output P1dB	12			dBm
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage	+8	+12	+15	V DC
DC Supply Current		30		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

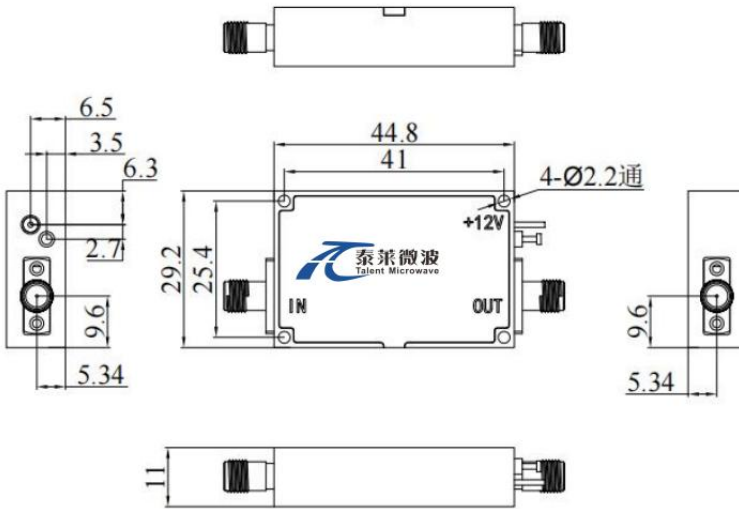
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	15 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
TLLA4G8G-25-20	Low Noise Amplifier, 4-8GHz, Noise Figure:2dB, Gain:25 dB,P1dB:12dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA4G8G-25-20-HS	Low Noise Amplifier, 4-8GHz, Noise Figure:2dB, Gain:25 dB,P1dB:12dBm,+12V DC,With Heatsink	Rev.1.1