

**Model: TLLA0.5G8G-32-25**
**Low Noise Amplifier**
**0.5-8GHz, NF:2.5dB, Gain:32dB, P1dB:15dBm**
**Feature:**

- Ultra Wide Band: 0.5-8GHz
- Gain: 32dB Typ
- Noise Figure: 2.5dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	0.5-8			GHz
Gain	26	32		dB
Gain Flatness		±1		dB
Noise Figure			2.5	dB
Output P1dB	15			dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		12		V DC
DC Supply Current			200	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	100	g

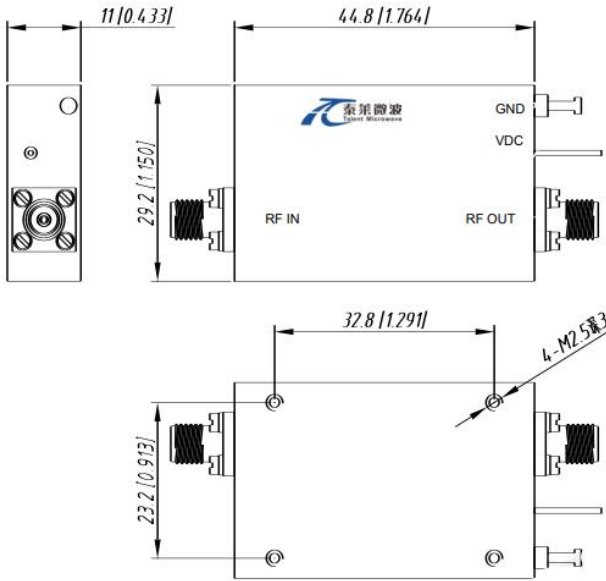
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	15 dBm
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	-40		+75	°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
TLLA0.5G8G-32-25	Low Noise Amplifier, 0.5-8GHz, Noise Figure:2.5dB, Gain:32 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.5G8G-32-25-HS	Low Noise Amplifier, 0.5-8GHz, Noise Figure:2.5dB, Gain:32 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1