

Model: TLLA1G4G-25-09
Low Noise Amplifier
1-4GHz, NF:0.9dB, Gain:25dB, P1dB:20dBm
Feature:

- Ultra Wide Band: 1-4GHz
- Gain: 25dB Min
- Noise Figure: 0.9dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

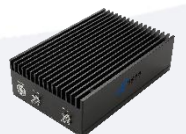
Parameter	Min	Typ	Max	Units
Frequency range	1-4			GHz
Gain	25			dB
Gain Flatness		±1.5		dB
Noise Figure			0.9	dB
Output P1dB	15	20		dBm
Output IP3		25		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		12		V DC
DC Supply Current		200		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	32.4*29.5*11	mm
Weight	/	g

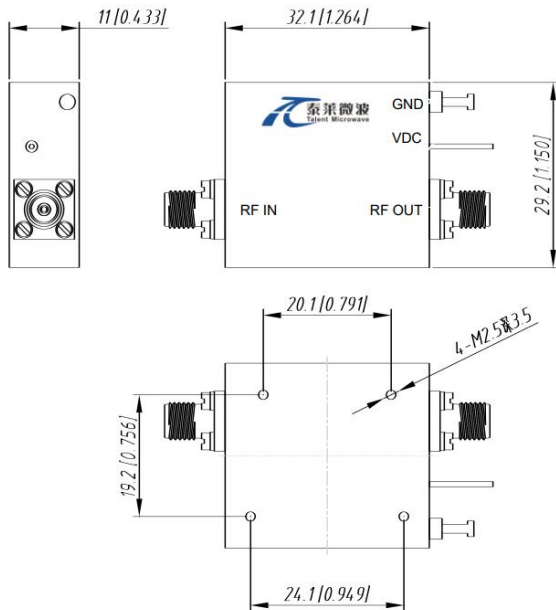
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	10 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	-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
TLLA1G4G-25-09	Low Noise Amplifier, 1-4GHz, Noise Figure:0.9dB, Gain:25 dB,P1dB:20dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA1G4G-25-09-HS	Low Noise Amplifier, 1-4GHz, Noise Figure:0.9dB, Gain:25 dB,P1dB:20dBm,+12V DC,With Heatsink	Rev.1.1