

Model:TLLA0.1G4G-36-20
Low Noise Amplifier
0.1-4GHz, NF:2.0dB, Gain:36dB,P1dB:10dBm
Feature:

- Ultra Wide Band: 0.1-4GHz
- Gain: 36dB Min
- Noise Figure: 2.0dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.1-4			GHz
Gain	36			dB
Gain Flatness		±2.5		dB
Noise Figure			2.0	dB
Output P1dB	10			dBm
Input VSWR			2	:1
Output VSWR			2	:1
DC Voltage		12		V DC
DC Supply Current		150		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	50	g

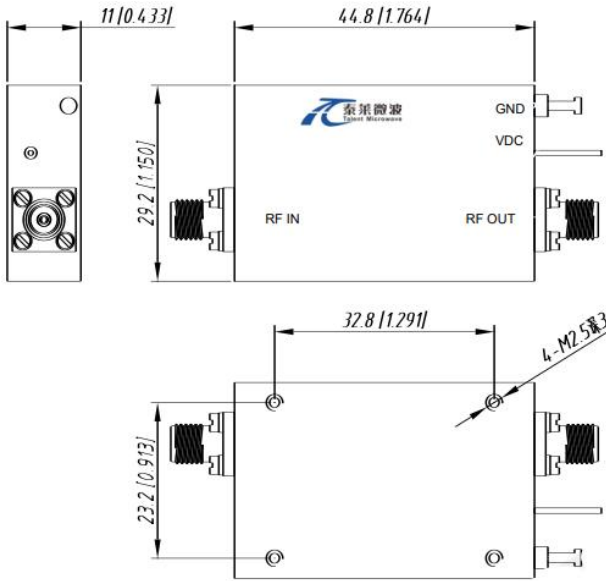
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	TBD
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	-55		+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
TLLA0.1G4G-36-20	Low Noise Amplifier,0.1-4GHz, Noise Figure:2.0dB, Gain:36 dB,P1dB:10dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.1G4G-36-20-HS	Low Noise Amplifier, 0.1-4GHz, Noise Figure:2.0dB, Gain:36 dB,P1dB:10dBm,+12V DC,With Heatsink	Rev.1.1