

Model: TLLA2.2G2.4G-35-10
Low Noise Amplifier
2.2-2.4GHz, NF:1.0dB, Gain:36dB, P1dB:17dBm
Feature:

- Ultra Wide Band: 2.2-2.4GHz
- Gain: 36dB Typ
- Noise Figure: 1.0dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

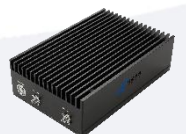
Parameter	Min	Typ	Max	Units
Frequency range	2.2-2.4			GHz
Gain		36		dB
Gain Flatness			±0.5	dB
Noise Figure		0.7	1	dB
Output P1dB	16	17		dBm
Output Psat		18		dBm
Input VSWR		1.3	1.5	:1
Output VSWR		1.3	1.5	:1
DC Voltage		5.5	13	V DC
DC Supply Current		60		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	20*28*10	mm
Weight	20	g

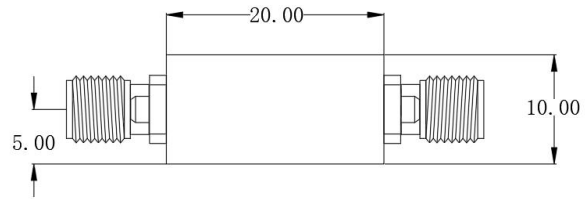
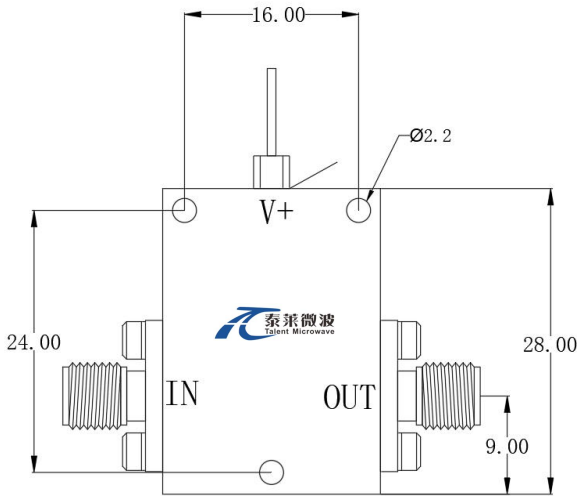
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+13V
RF Input Power	20 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	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
TLLA2.2G2.4G-35-10	Low Noise Amplifier, 2.2-2.4GHz, Noise Figure:1.0dB, Gain:36 dB,P1dB:17dBm,+5.5V DC,Without Heatsink	Rev.1.1
TLLA2.2G2.4G-35-10-HS	Low Noise Amplifier, 2.2-2.4GHz, Noise Figure:1.0dB, Gain:36 dB,P1dB:17dBm,+5.5V DC,With Heatsink	Rev.1.1