

Model:TLLA8G12G-22-10

Low Noise Amplifier 8-12GHz, NF:1.0dB, Gain:22dB,P1dB:17dBm

Feature:

- Ultra Wide Band: 8-12GHz
- Gain: 22dB Typ
- Noise Figure: 1.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	8-12			GHz
Gain	20	22		dB
Gain Flatness		± 1.2	± 1.5	dB
Noise Figure		1.0	1.5	dB
Output P1dB	15	17		dBm
Output Psat		18		dBm
Input VSWR		1.8	2.0	:1
Output VSWR		1.8	2.0	:1
DC Voltage	5	8	12	V DC
DC Supply Current		70		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	/	g

Absolute Maximum Ratings:

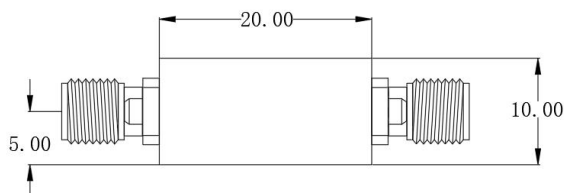
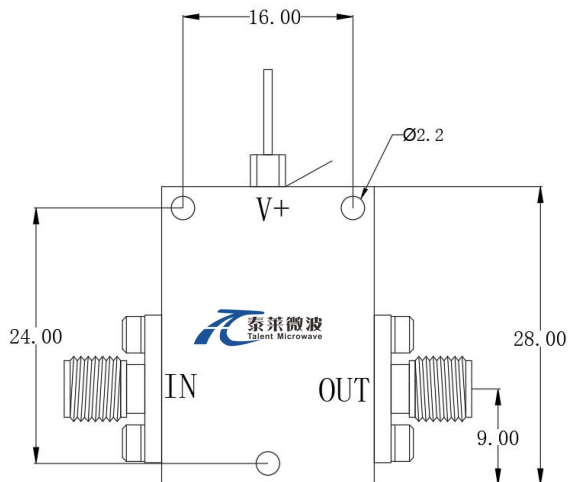
Parameter	Value
Supply Bias Voltage	+12V
RF Input Power	5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



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
TLLA8G12G-22-10	Low Noise Amplifier, 8-12GHz, Noise Figure:1.0dB, Gain:22 dB,P1dB:17dBm,+8V DC,Without Heatsink	Rev.1.1
TLLA8G12G-22-10-HS	Low Noise Amplifier, 8-12GHz, Noise Figure:1.0dB, Gain:22 dB,P1dB:17dBm,+8V DC,With Heatsink	Rev.1.1