

**Model: TLLA0.5G8G-35-20**
**Low Noise Amplifier**
**0.5-8GHz, NF:2.5dB, Gain:35dB, P1dB:29dBm**
**Feature:**

- Ultra Wide Band: 0.5-8GHz
- Gain: 35dB 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	30	35		dB
Gain Flatness		±1.5		dB
Noise Figure		1.5	2.5	dB
Output P1dB	26	29		dBm
Spurious		-60		dBc
Input VSWR		2.5	3.5	:1
Output VSWR		1.5	1.8	:1
DC Voltage		15		V DC
DC Supply Current		480		mA
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	44.3*30.3*12.3	mm
Weight	/	g

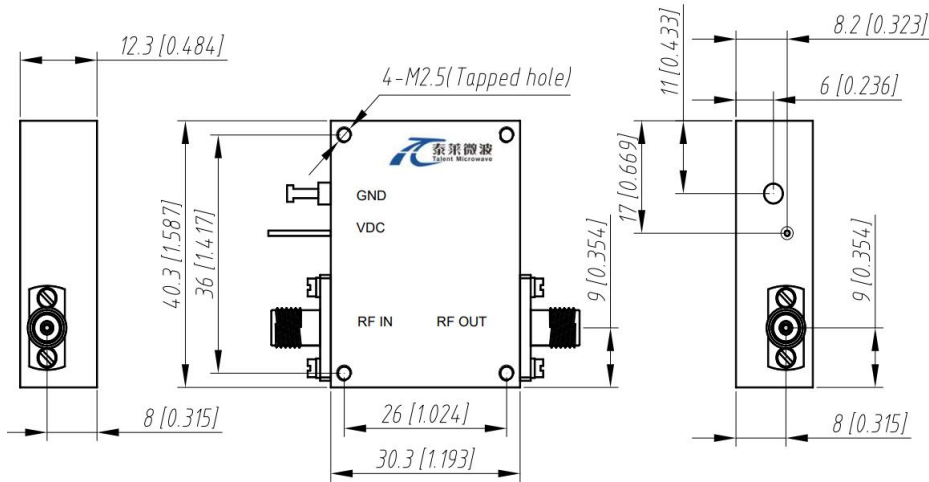
**Absolute Maximum Ratings:**

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	-40		+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
TLLA0.5G8G-35-20	Low Noise Amplifier, 0.5-8GHz, Noise Figure:1.5dB, Gain:35 dB,P1dB:29dBm,+15V DC,Without Heatsink	Rev.1.1
TLLA0.5G8G-35-20-HS	Low Noise Amplifier, 0.5-8GHz, Noise Figure:1.5dB, Gain:35 dB,P1dB:29dBm,+15V DC,With Heatsink	Rev.1.1