

**Model: TLLA18G26G-30-25**
**Low Noise Amplifier**
**18-26GHz, NF:1.5dB, Gain:32dB, P1dB:15dBm**
**Feature:**

- Ultra Wide Band: 18-26GHz
- Gain: 32dB Typ
- Noise Figure: 1.5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

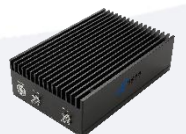
Parameter	Min	Typ	Max	Units
Frequency range	18-26			GHz
Gain	30	32		dB
Gain Flatness		±1.5	±2.5	dB
Noise Figure		1.5	2	dB
Output P1dB	13	15		dBm
Output IP3		25		dBm
Input VSWR		1.5	2	:1
Output VSWR		1.8	2	:1
DC Voltage		12		V DC
DC Supply Current		260		mA
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	30*30*8	mm
Weight	/	g

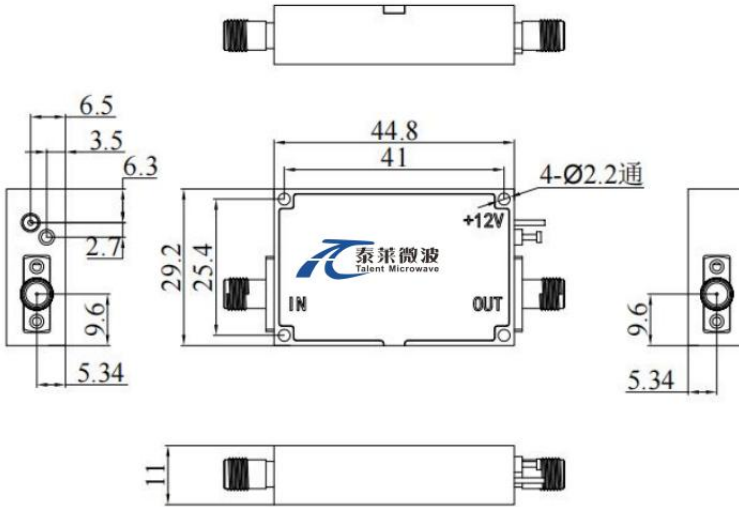
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	-5 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
TLLA18G26G-30-25	Low Noise Amplifier, 18-26GHz, Noise Figure:1.5dB, Gain:32 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA18G26G-30-25-HS	Low Noise Amplifier, 18-26GHz, Noise Figure:1.5dB, Gain:32 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1