

**Model:TLA0.3G20G-14-30**
**Low Noise Amplifier**  
**0.3-20GHz, NF:3.0dB, Gain:14dB,P1dB:11dBm**
**Feature:**

- Ultra Wide Band: 0.3-20GHz
- Gain: 14dB Typ
- Noise Figure: 3.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	0.3-20			GHz
Gain	11	14		dB
Gain Flatness		±3	±5	dB
Noise Figure		3	3.8	dB
Output P1dB		11		dBm
Output IP3		20		dBm
Input VSWR		1.6	2	:1
Output VSWR		1.5	2	:1
DC Voltage		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	17*17*8	mm
Weight	/	g

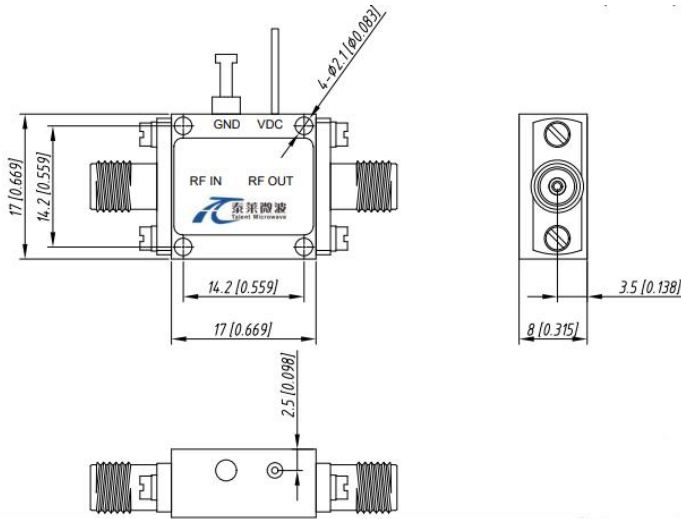
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	10 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	单位 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
TLLA0.3G20G-14-30	Low Noise Amplifier, 0.3-20GHz, Noise Figure:3.0dB, Gain:14 dB,P1dB:11dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.3G20G-14-30-HS	Low Noise Amplifier, 0.3-20GHz, Noise Figure:3.0dB, Gain:14 dB,P1dB:11dBm,+12V DC,With Heatsink	Rev.1.1