

Model: TLLA11.75G12.75G-35-13
**Low Noise Amplifier ,11.75-12.75GHz,
 NF:1.3dB, Gain:35dB,P1dB:15dBm**
Feature:

- Ultra Wide Band: 11.75-12.75GHz
- Gain: 35dB Min
- Noise Figure: 1.3dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	11.75-12.75			GHz
Gain	35	36		dB
Gain Flatness		±1		dB
Noise Figure		1	1.3	dB
Output P1dB	15			dBm
Input VSWR		1.8	2	:1
Output VSWR		1.8	2	:1
DC Voltage		12		V DC
DC Supply Current		100		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	44.8*29.2*11	mm
Weight	55	g

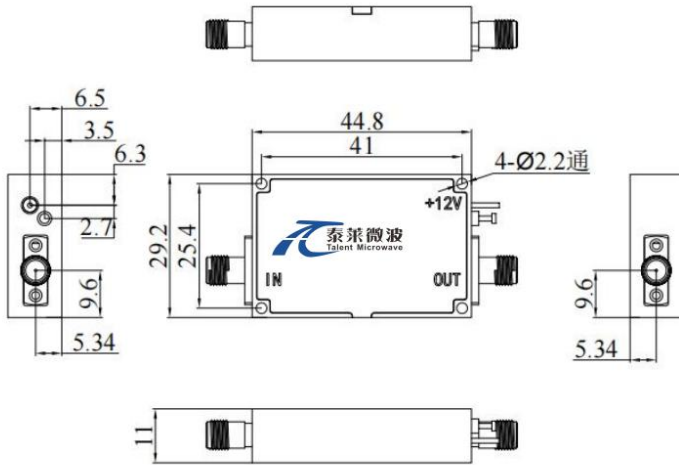
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	15 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	-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
TLLA11.75G12.75G-35-13	Low Noise Amplifier, 11.75-12.75GHz, Noise Figure:1.3dB, Gain:35 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA11.75G12.75G-35-13-HS	Low Noise Amplifier, 11.75-12.75GHz, Noise Figure:1.3dB, Gain:35 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1