

Low Noise Amplifier

14-40GHz /2.8dB NF/15dB Gain/14 dBm P1dB

Model: TLLA14G40G-15-28-LC

TLLA14G40G-15-28-LC is a low noise amplifier with small signal gain of 15 dB and noise figure of 2.8 dB across the frequency range of 14 to 40 GHz. The DC power requirement for the amplifier is +12 V DC/43 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Ultra Wide Band:14-40GHz
- Gain: 15dB Typ
- Noise Figure: 2.8dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Communication systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	14		40	GHz
Gain		15		dB
Gain Flatness		±1.5		dB
Noise Figure		2.8		dB
Output P-1 dB		14		dBm
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage		+12	+15	V DC
DC Supply Current		43		mA
Impedance	50			Ohms

Mechanical Specifications:

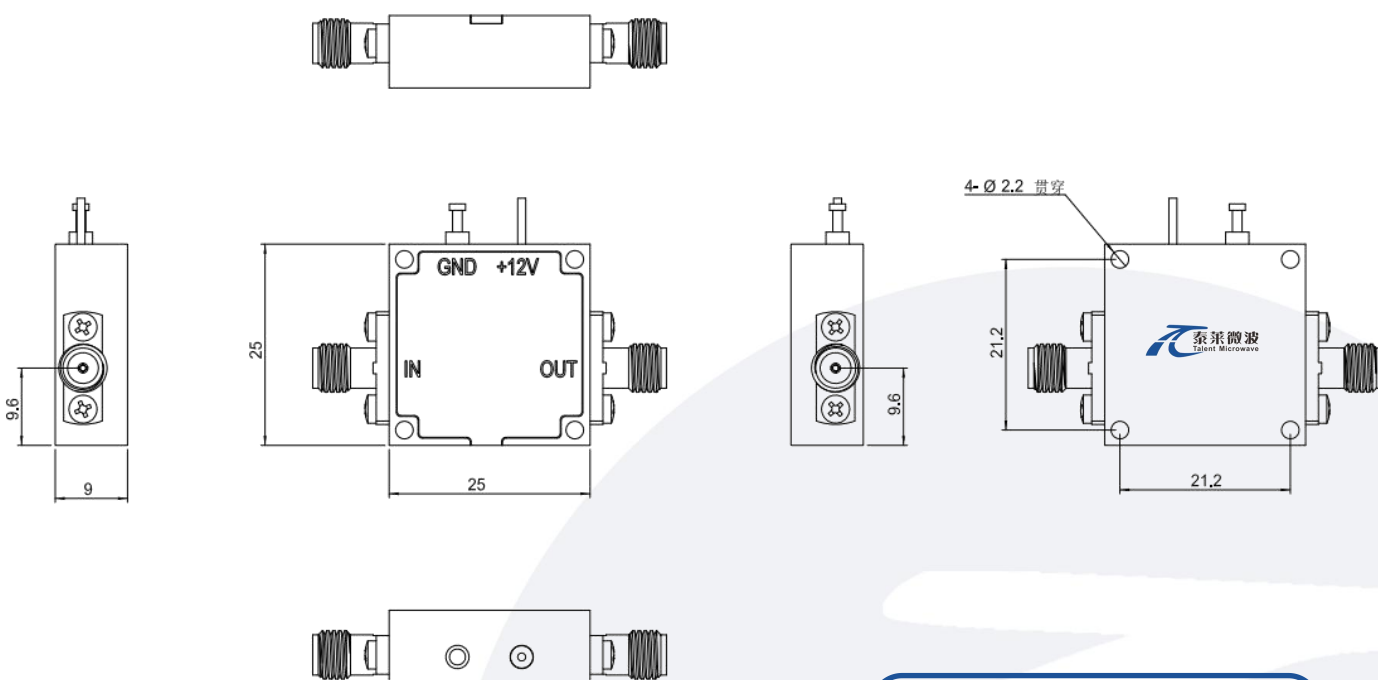
Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	25×25×9	mm
Weight	/	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	+17 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



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:

Base Number	描述 Description	Revision
TLLA14G40G-15-28-LC	Low Noise Amplifier, 14-40GHz, Noise Figure:2.8dB, Gain:15 dB,P1dB:14dBm,+12V DC,Without Heatsink	Rev.1.0