

Model: TLLA18G42G-22-40

Low Noise Amplifier

18-42GHz, NF:4.0dB, Gain:28dB, P1dB:15dBm

Feature:

- Ultra Wide Band: 18-42GHz
- Gain: 28dB Typ
- Noise Figure: 4.dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	18-42			GHz
Gain	22	28		dB
Gain Flatness		±2.0	±2.5	dB
Noise Figure		4	5.5	dB
Output P1dB	13	15		dBm
Output IP3		25		dBm
Input VSWR		2	2.5	:1
Output VSWR		2	2.5	:1
DC Voltage		5		V DC
DC Supply Current		240		mA
Impedance	50			Ohms

Mechanical Specifications:

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

Absolute Maximum Ratings:

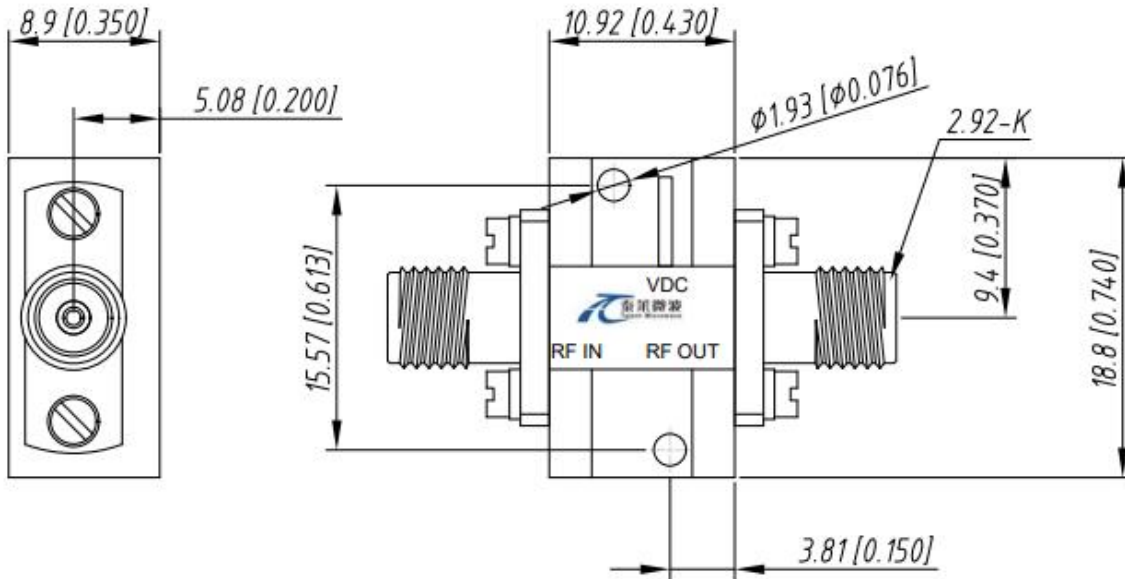
Parameter	Value
Supply Bias Voltage	/
RF Input Power	-5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



**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
TLLA18G42G-22-40	Low Noise Amplifier, 18-42GHz, Noise Figure:4.0dB, Gain:28 dB,P1dB:15dBm,+5V DC,Without Heatsink	Rev.1.1
TLLA18G42G-22-40-HS	Low Noise Amplifier, 18-42GHz, Noise Figure:4.0dB, Gain:28 dB,P1dB:15dBm,+5V DC,With Heatsink	Rev.1.1