

**Model: TLA18G40G-30-60**
**Low Noise Amplifier**  
**18-40GHz, NF:6.0dB, Gain:30dB, P1dB:25dBm**
**Feature:**

- Ultra Wide Band: 18-40GHz
- Gain: 30dB Typ
- Noise Figure: 6.0dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	18-40			GHz
Gain		30		dB
Gain Flatness		±4		dB
Noise Figure		3.5	6	dB
Output P1dB	25			dBm
Spurious			-60	dBc
Harmonic			-15	dBc
Input VSWR		2		:1
DC Voltage		12		V DC
Power Consumption			7	W
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	/	mm
Weight	≤200	g

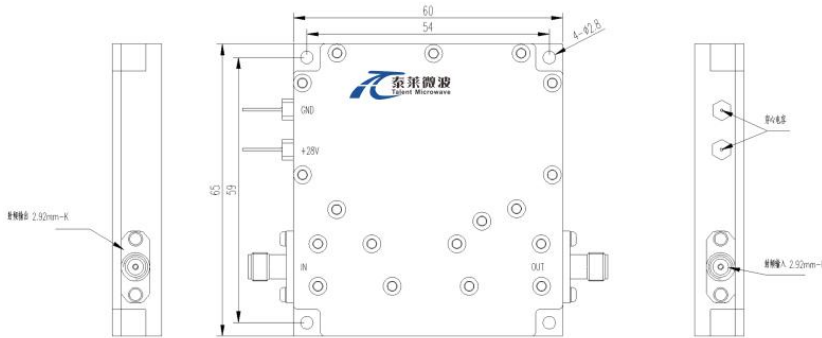
**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	+12V
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	-40		+60	°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
TLLA18G40G-30-60	Low Noise Amplifier, 18-40GHz, Noise Figure:6.0dB, Gain:30 dB,P1dB:25dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA18G40G-30-60-HS	Low Noise Amplifier, 18-40GHz, Noise Figure:6.0dB, Gain:30 dB,P1dB:25dBm,+12V DC,With Heatsink	Rev.1.1