

Model: TLLA1G40G-30-60

Low Noise Amplifier

1-40GHz, NF:6.0dB, Gain:30dB, P1dB:22dBm

Feature:

- Ultra Wide Band: 1-40GHz
- Gain: 30dB Typ
- Noise Figure: 6.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	1-40			GHz
Gain	29	30		dB
Noise Figure		6		dB
Output P1dB		22		dBm
Output Psat		23		dBm
Input VSWR		1.6		:1
Output VSWR		1.8		:1
DC Voltage		9	12	V DC
DC Supply Current		360		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	50*60*12	mm
Weight	/	g

Absolute Maximum Ratings:

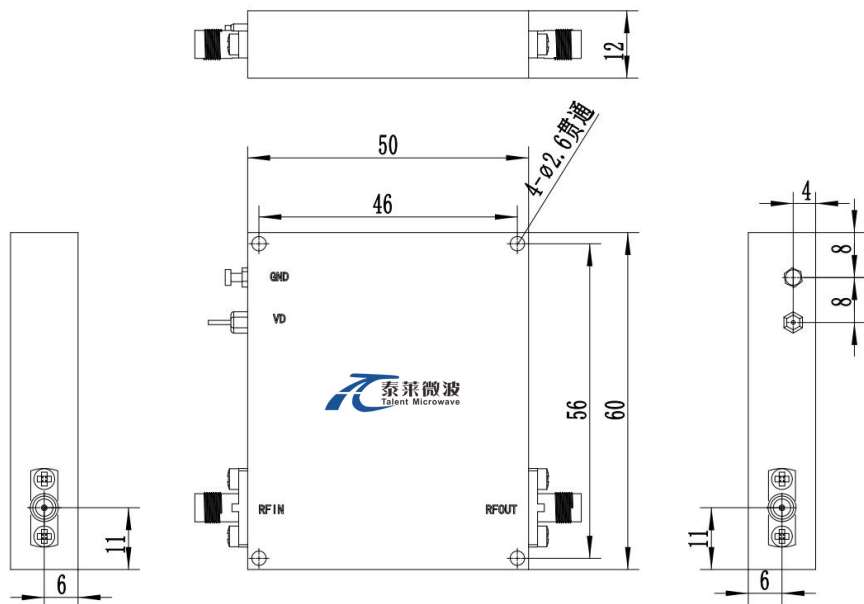
Parameter	Value
Supply Bias Voltage	+12 V
RF Input Power	0 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



*****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		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:

Part Number	Description	Revision
TLLA1G40G-30-60	Low Noise Amplifier, 1-40GHz, Noise Figure:6.0dB, Gain:30 dB,P1dB:22dBm,+9V DC,Without Heatsink	Rev.1.1
TLLA1G40G-30-60-HS	Low Noise Amplifier, 1-40GHz, Noise Figure:6.0dB, Gain:30 dB,P1dB:22dBm,+9V DC,With Heatsink	Rev.1.1