

Model: TLLA1G40G-42-40
Low Noise Amplifier
1-40GHz, NF:4.0dB, Gain:42dB, P1dB:18dBm
Feature:

- Ultra Wide Band: 1-40GHz
- Gain: 42dB Typ
- Noise Figure: 4.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter		Min	Typ	Max	Units
Frequency range		1-40			GHz
Gain		40	42		dB
Gain Flatness			±3.5		dB
Noise Figure			4	5	dB
Output P1dB	@1~30GHz		18		dBm
	@30~40GHz		16		dBm
Input VSWR			1.8		:1
Output VSWR			1.8		:1
DC Voltage		9	12	16	V DC
DC Supply Current			420		mA
Impedance		50			Ohms

Mechanical Specifications:

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

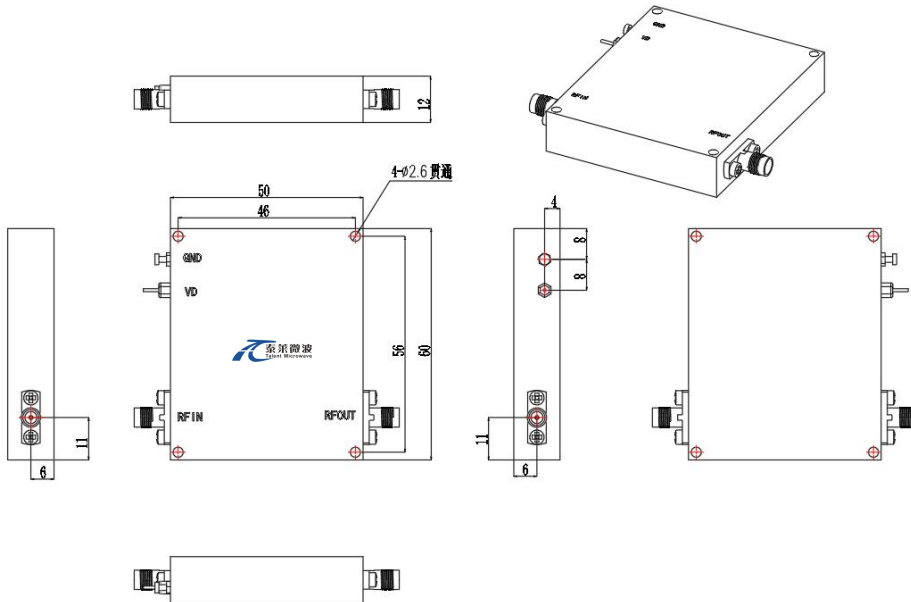
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+16V
RF Input Power	5 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-42-40	Low Noise Amplifier, 1-40GHz, Noise Figure:4.0dB, Gain:42 dB,P1dB:18dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA1G40G-42-40-HS	Low Noise Amplifier, 1-40GHz, Noise Figure:4.0dB, Gain:42 dB,P1dB:18dBm,+12 DC,With Heatsink	Rev.1.1