

Model: TLLA24G44G-40-50-2
Low Noise Amplifier
24-44GHz, NF:5.0dB, Gain:40dB, P1dB:21dBm
Feature:

- Ultra Wide Band: 24-44GHz
- Gain: 40dB Typ
- Noise Figure: 5.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	24-44			GHz
Gain	38	40		dB
Gain Flatness		±3.0	±4.0	dB
Noise Figure		5	6	dB
Output P1dB	20	21		dBm
Output Psat		22		dBm
Spurious		-60		dBc
Output IP3		30		dBm
Input VSWR		1.8	2.5	:1
Output VSWR		1.8	2.5	:1
DC Voltage		12		V DC
DC Supply Current		750		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.4mm Female/2.4mm Female	
DC Bias	Solder Pin	
Size	35*40*12	mm
Weight	50	g

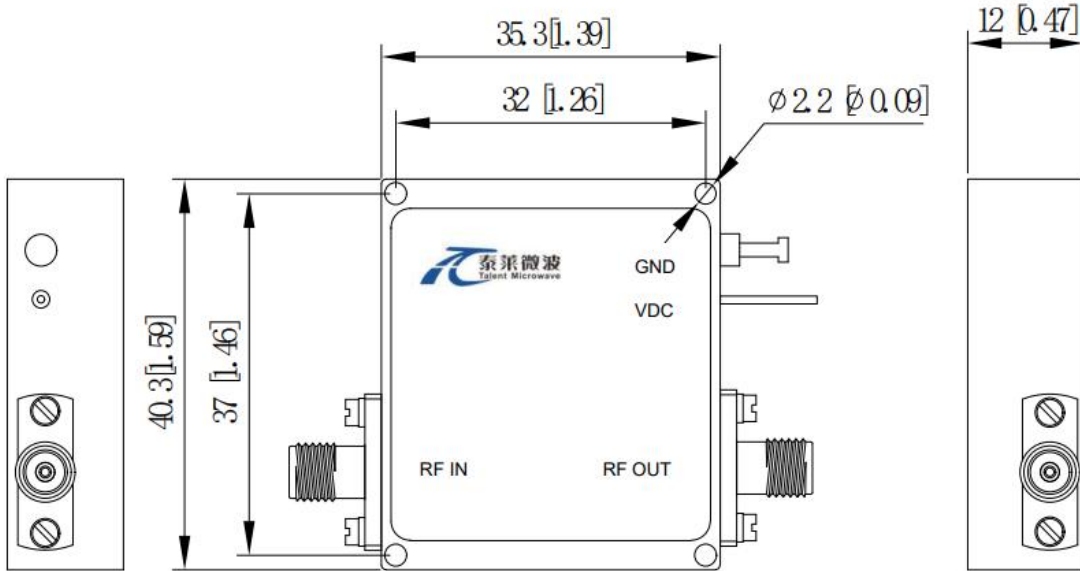
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+18 V
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
TLLA24G44G-40-50-2	Low Noise Amplifier, 24-44GHz, Noise Figure:5.0dB, Gain:40 dB,P1dB:21dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA24G44G-40-50-2-HS	Low Noise Amplifier, 24-44GHz, Noise Figure:5.0dB, Gain:40 dB,P1dB:21dBm,+12V DC,With Heatsink	Rev.1.1