

Model: TLLA50K50G-38-50
**Low Noise Amplifier , 50KHz-50GHz, NF:5.5dB,
Gain:38dB,P1dB:14dBm**
Feature:

- Ultra Wide Band: 50KHz-50GHz
- Gain: 38dB Typ
- Noise Figure: 5.5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter		Min	Typ	Max	Units
Frequency range		50KHz-50GHz			
Gain		36	38		dB
Gain Flatness			±2.5		dB
Noise Figure			5.5		dB
Output P1dB	@10MHz-40GHz		14		dBm
	@40-50GHz		9		dBm
Input VSWR			1.8		:1
Output VSWR			1.8		:1
DC Voltage			6	12	V DC
DC Supply Current			180		mA
Impedance		50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.4mm Female/2.4mm Female	
DC Bias	Solder Pin	
Size	35*45*12	mm
Weight	/	g

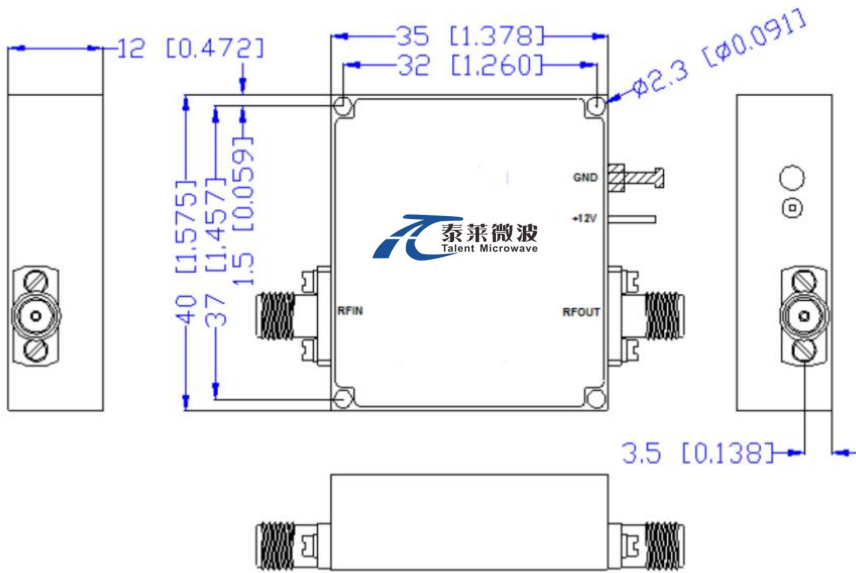
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
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	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
TLLA50K50G-38-50	Low Noise Amplifier,50KHz-50GHz, Noise Figure:5.5dB, Gain:38 dB,P1dB:14dBm,+6V DC,Without Heatsink	Rev.1.1
TLLA50K50G-38-50-HS	Low Noise Amplifier, 50KHz-50GHz, Noise Figure:5.5dB, Gain:38 dB,P1dB:14dBm,+6V DC,With Heatsink	Rev.1.1