

Model: TLLA10G50G-30-50
Low Noise Amplifier
10-50GHz, NF:5.0dB, Gain:30dB, P1dB:13dBm
Feature:

- Ultra Wide Band: 10-50GHz
- Gain: 30dB Typ
- Noise Figure: 5.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

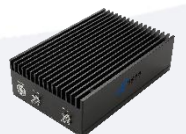
Parameter	Min	Typ	Max	Units
Frequency range	10-50			GHz
Gain	28	30		dB
Gain Flatness		±3		dB
Noise Figure		5	8	dB
Output P1dB		13		dBm
Output IP3		25		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		12	13	V DC
DC Supply Current		300		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.4mm Female/2.4mm Female	
DC Bias	Solder Pin	
Size	44.8*29.2*11	mm
Weight	/	g

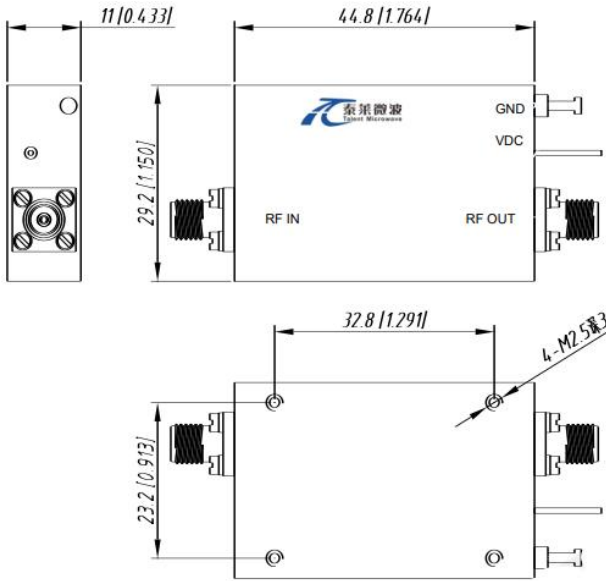
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+13V
RF Input Power	10 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		+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
TLLA10G50G-30-50	Low Noise Amplifier, 10-50GHz, Noise Figure:5.0dB, Gain:30 dB,P1dB:13dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA10G50G-30-50-HS	Low Noise Amplifier, 10-50GHz, Noise Figure:5.0dB, Gain:30 dB,P1dB:13dBm,+12V DC,With Heatsink	Rev.1.1