

Model: TLLA0.02G6G-50-20
Low Noise Amplifier
0.02-6GHz, NF:2.0dB, Gain:50dB, P1dB:19dBm
Feature:

- Ultra Wide Band: 0.02-6GHz
- Gain: 50dB Typ
- Noise Figure: 2.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.02-6			GHz
Gain	48	50		dB
Noise Figure		2		dB
Output P1dB		19		dBm
Output Psat		19.5		dBm
Input VSWR		1.8		:1
Output VSWR		1.8		:1
DC Voltage		8	12	V DC
DC Supply Current		280		mA
Impedance	50			Ohms

Mechanical Specifications:

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

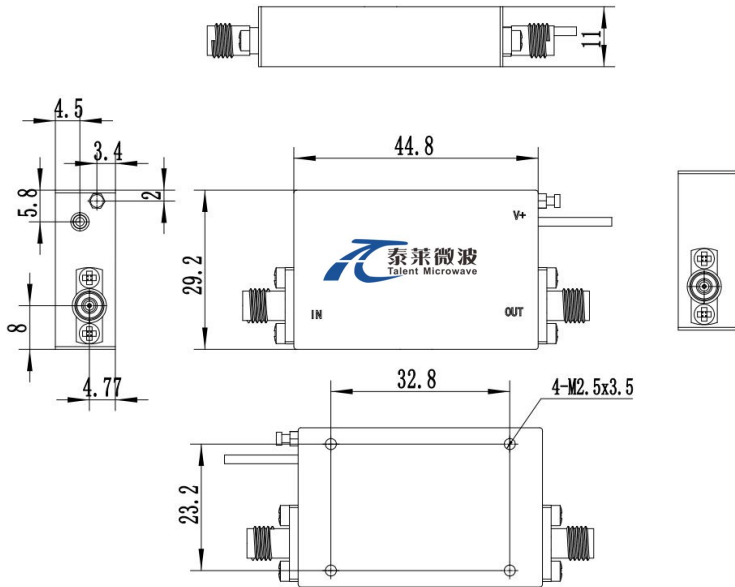
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+12 V
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
TLLA0.02G6G-50-20	Low Noise Amplifier, 0.02-6GHz, Noise Figure:2.0dB, Gain:50 dB,P1dB:19dBm,+5V DC,Without Heatsink	Rev.1.1
TLLA0.02G6G-50-20-HS	Low Noise Amplifier, 0.02-6GHz, Noise Figure:2.0dB, Gain:50 dB,P1dB:19dBm,+5V DC,With Heatsink	Rev.1.1