

Model: TLLA6G18G-38-25
Low Noise Amplifier
6-18GHz, NF:2.5dB, Gain:38dB, P1dB:22dBm
Feature:

- Ultra Wide Band: 6-18GHz
- Gain: 38dB Typ
- Noise Figure: 2.5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	6-18			GHz
Gain	35	38	41	dB
Gain Flatness		±2	±2.5	dB
Noise Figure		2	3	dB
Output P1dB	20	22		dBm
Output IP3	27	30		dBm
Spurious			-60	dBc
Revsrse Isolation	40	45		dB
Input VSWR		1.8	2.5	:1
Output VSWR		1.8	2.5	:1
DC Voltage	10	12	15	V DC
DC Supply Current	250	280	320	mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	1.5*1*0.4	Inch
Weight	/	g

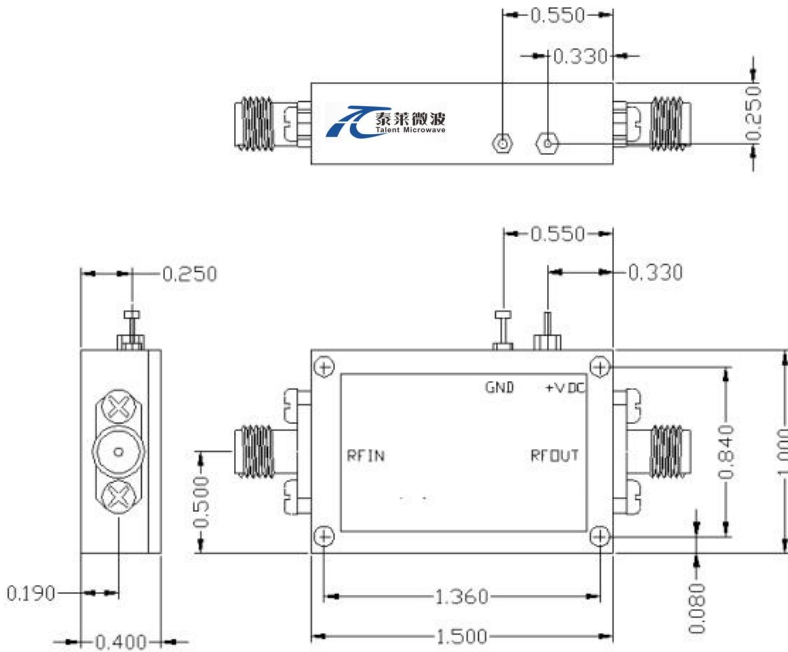
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15 V
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		+75	°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
TLLA6G18G-38-25	Low Noise Amplifier, 6-18GHz, Noise Figure:2.5dB, Gain:38 dB,P1dB:22dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA6G18G-38-25-HS	Low Noise Amplifier, 6-18GHz, Noise Figure:2.5dB, Gain:38 dB,P1dB:22dBm,+12V DC,With Heatsink	Rev.1.1