

Model:TLA0.5G18G-31-40
Low Noise Amplifier
0.5-18GHz, NF:4.0dB, Gain:31dB,P1dB:15dBm
Feature:

- Ultra Wide Band: 0.5-18GHz
- Gain: 31dB Typ
- Noise Figure: 4.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.5-18			GHz
Gain	26	31		dB
Gain Flatness		±1	±2	dB
Noise Figure		4.0	5.5	dB
Output P1dB	13	15		dBm
Output IP3		26		dBm
Input VSWR		1.8	2	:1
Output VSWR		1.8	2	:1
DC Voltage		12		V DC
DC Supply Current		140		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	30*30*10.2	mm
Weight	/	g

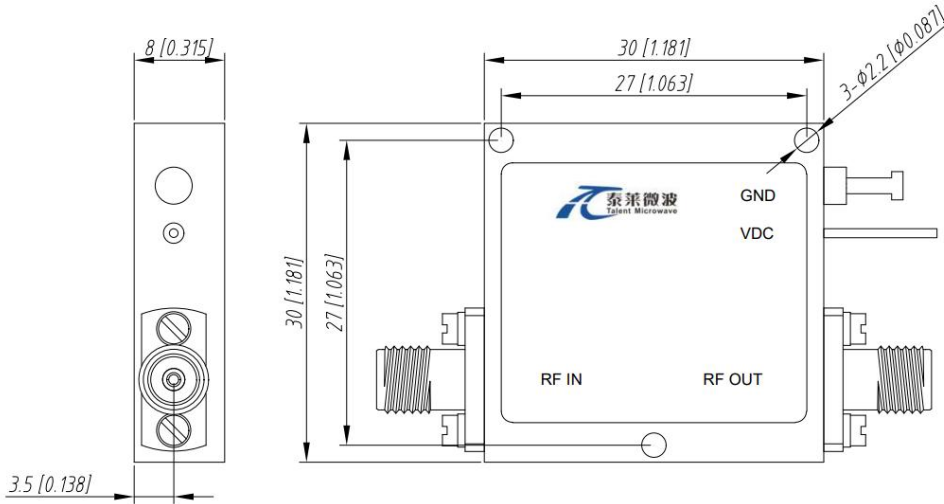
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	-10dBm
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
TLLA0.5G18G-31-40	Low Noise Amplifier, 0.5-18GHz, Noise Figure:4.0dB, Gain:31 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.5G18G-31-40-HS	Low Noise Amplifier, 0.5-18GHz, Noise Figure:4.0dB, Gain:31 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1