

Model:TLLA0.01G40G-27-45
Low Noise Amplifier
0.01-40GHz, NF:4.5dB, Gain:27dB,P1dB:21dBm
Feature:

- Ultra Wide Band: 0.01-40GHz
- Gain: 27dB Typ
- Noise Figure: 4.5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.01-40			GHz
Gain	25	27		dB
Gain Flatness		±2.5		dB
Noise Figure		4.5	6	dB
Output P1dB	18	21		dBm
Output Psat		22		dBm
Input VSWR		1.8	2.5	:1
Output VSWR		1.8	2.5	:1
DC Voltage	10	12	14	V DC
DC Supply Current		260		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
DC Bias	Solder Pin	
Size	35*40*12	mm
Weight	/	g

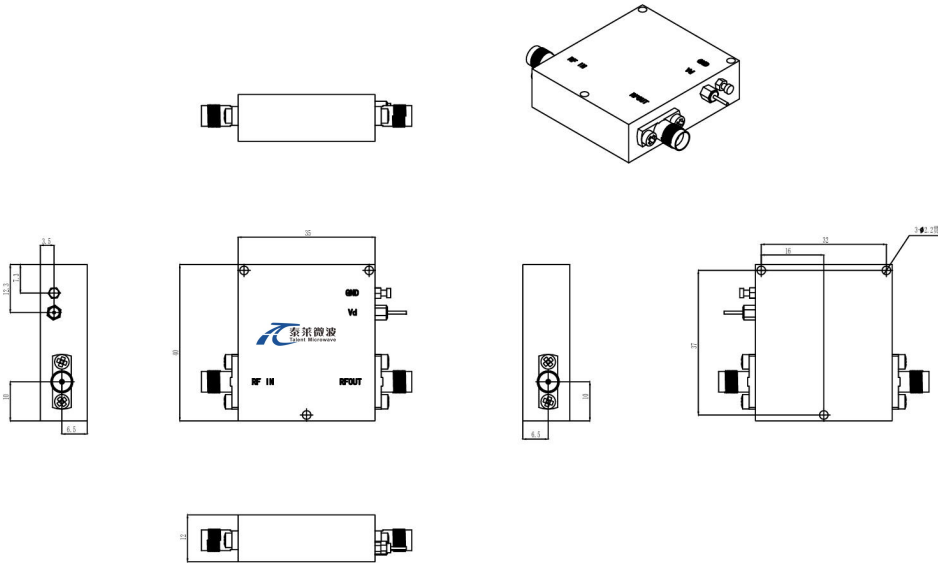
Absolute Maximum Ratings:

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
TLLA0.01G40G-27-45	Low Noise Amplifier,0.01-40GHz, Noise Figure:4.5dB, Gain:27 dB,P1dB:21dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.01G40G-27-45-HS	Low Noise Amplifier,0.01-40GHz, Noise Figure:4.5dB, Gain:27 dB,P1dB:21dBm,+12V DC,With Heatsink	Rev.1.1