

Model:TLLA8G12G-35-20

Low Noise Amplifier

8-12GHz, NF:2.0dB, Gain:35dB,P1dB:27dBm

Feature:

- Ultra Wide Band: 8-12GHz
- Gain: 35dB 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	8-12			GHz
Gain	34	35		dB
Noise Figure		2	2.5	dB
Output P1dB	25.5	27		dBm
Output Psat	26.5	28		dBm
Input VSWR		1.8		:1
Output VSWR		1.8		:1
Monitor Power Threshold(Control NC)		20		dBm
Monitor Output TTL		0/+3.3		V
DC Voltage	12	15	16	V DC
DC Supply Current		320		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	35*45*9.5	mm
Weight	/	g

Absolute Maximum Ratings:

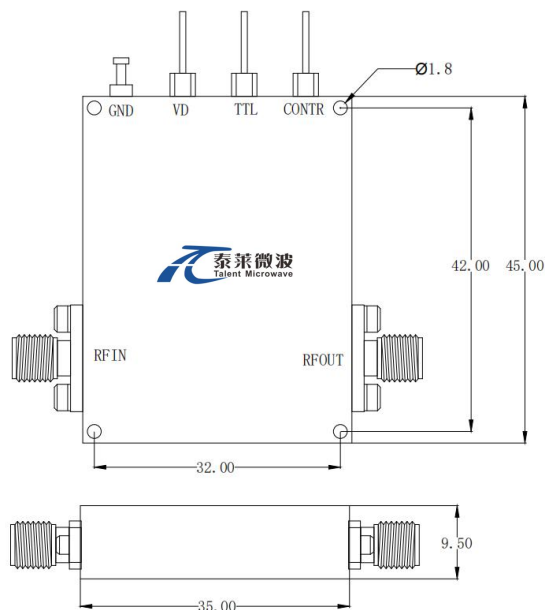
Parameter	Value
Supply Bias Voltage	+16V
RF Input Power	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



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
TLLA8G12G-35-20	Low Noise Amplifier, 8-12GHz, Noise Figure:2.0dB, Gain:35 dB,P1dB:27dBm,+15V DC,Without Heatsink	Rev.1.1
TLLA8G12G-35-20-HS	Low Noise Amplifier, 8-12GHz, Noise Figure:2.0dB, Gain:35 dB,P1dB:27dBm,+15V DC,With Heatsink	Rev.1.1