

Model:TLLA0.1G12G-35-20
Low Noise Amplifier
0.1-12GHz, NF:2.0dB, Gain:35dB,P1dB:29.5dBm
Feature:

- Ultra Wide Band: 0.1-12GHz
- 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	0.1-12			GHz
Gain	34	35		dB
Noise Figure		2	2.5	dB
Output P1dB	29	29.5		dBm
Output Psat	29.5	30		dBm
Input VSWR		1.6		:1
Output VSWR		1.8		:1
DC Voltage		12	16	V DC
DC Supply Current		550		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	50*55*14(Without Heatsink)	mm
Weight	/	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+16V
RF Input Power	5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
 Benchtop Amplifier**

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
TLLA0.1G12G-35-20	Low Noise Amplifier, 0.1-12GHz, Noise Figure:2.0dB, Gain:35 dB,P1dB:29.5dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.1G12G-35-20-HS	Low Noise Amplifier, 0.1-12GHz, Noise Figure:2.0dB, Gain:35 dB,P1dB:29.5dBm,+12V DC,With Heatsink	Rev.1.1