

Low Noise Amplifier

33-35GHz/2.0dB NF/36dB Gain/13dBm P1dB Model: TLLA33G35G-36-40-WR28-L

TLLA33G35G-36-40-WR28-L is a low noise amplifier with a typical small signal gain of 13 dB and a nominal noise figure of 2.0 dB across the frequency range of 33 to 35 GHz. The DC power requirement for the amplifier is +5 V DC/85 mA. The input port is WR-28/UG-599/U and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 33-35GHz
- Gain: 36dB Typ
- Noise Figure: 2.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Communication systems

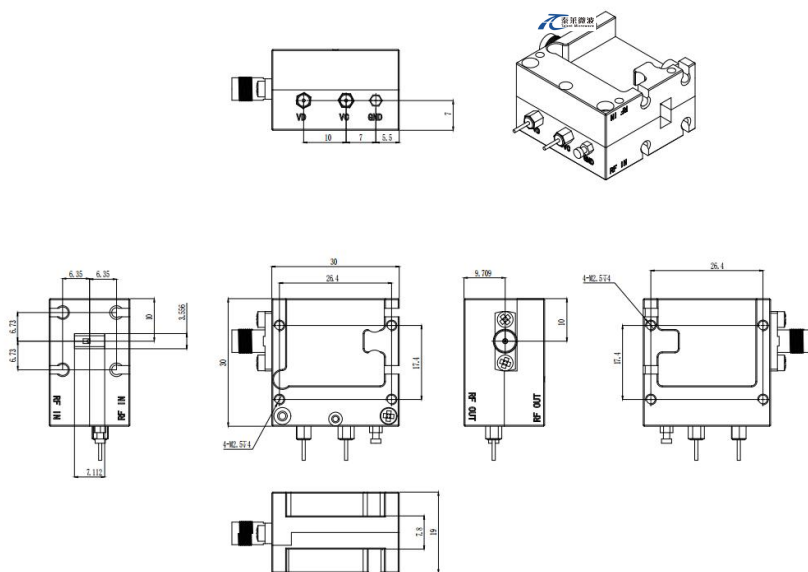
电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	33		35	GHz
小信号增益 Small Signal Gain		36		dB
增益平坦度 Gain Flatness	±0.5@Band=1GHz			dB
噪声系数 Noise Figure		2.0		dB
线性输出功率 Output P1dB	12	13		dBm
饱和输出功率 Output Psat		14		dBm
输入驻波 Input VSWR		2		:1
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直流电压 DC Voltage		+5	+8	V DC
直流电流 DC Supply Current		85		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	WR-28/UG-599/U/2.92mmFemale	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	30*30*19	mm

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	+20 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLLA33G35G-36-40-WR28-L	Low Noise Amplifier, 33-35GHz, Noise Figure:2.0dB, Gain:36 dB,P1dB:13dBm,+5V DC,Without Heatsink	Rev.1.1
TLLA33G35G-36-40-WR28-L-HS	Low Noise Amplifier, 33-35GHz, Noise Figure:2.0dB, Gain:36 dB,P1dB:13dBm,+5V DC,With Heatsink	Rev.1.1