

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
输出驻波 Output VSWR		2		:1
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

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