

## Low Noise Amplifier

0.01-67GHz/5.0dB NF/18dB Gain/15dBm P1dB

Model: TLLA0.01G67G-18-50

TLLA0.01G67G-18-50 is a low noise amplifier with a typical small signal gain of 18 dB and a nominal noise figure of 5.0 dB across the frequency range of 0.01 to 67 GHz. The DC power requirement for the amplifier is +12 V DC/200 mA. The input and output port configuration offers coax adapter structure with 1.85mm female.

### Features:

- Frequency range: 0.01-67GHz
- Gain: 18dB Typ
- Noise Figure: 5.0dB 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	0.01		67	GHz
小信号增益 Small Signal Gain		18		dB
增益平坦度 Gain Flatness		±2		dB
噪声系数 Noise Figure		5.0		dB
线性输出功率 Output P1dB		15		dBm
输出三阶交调 Output IP3		20		dBm
输入驻波 Input VSWR		1.8	2.5	:1
输出驻波 Output VSWR		1.8	2.5	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		200		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	1.85mm Female/1.85mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	30*30*8	mm
重量 Weight	50	g



## 订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLLA0.01G67G-18-50	Low Noise Amplifier, 0.01-67GHz, Noise Figure:5.0dB, Gain:18dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.01G67G-18-50-HS	Low Noise Amplifier, 0.01-67GHz, Noise Figure:5.0dB, Gain:18dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1