Turpanic Co, Ltd
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Low Noise Amplifier

33-37GHz/3.5dB NF/18dB Gain/18dBm P1dB Model: TLLA33G37G-18-35

TLLA33G37G-18-35 is a low noise amplifier with a typical small signal gain of 18 dB and a nominal noise figure of 3.5 dB across the frequency range of 33 to 37 GHz. The DC power requirement for the amplifier is +5 V DC/200 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 33-37GHz
- Gain: 18dB Typ
- Noise Figure: 3.5dB 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		37	GHz
小信号增益 Small Signal Gain	16	18	20	dB
增益平坦度 Gain Flatness		±0.5	±1	dB
噪声系数 Noise Figure		3.5	4.5	dB
线性输出功率 Output P1dB	16	18		dBm
饱和输出功率 Output Psat		18		dBm
输入驻波 Input VSWR		1.6	1.8	:1
输出驻波 Output VSWR		1.6	1.8	:1
直流电压 DC Voltage		+5		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	2.92mm Female/2.92mm Female	

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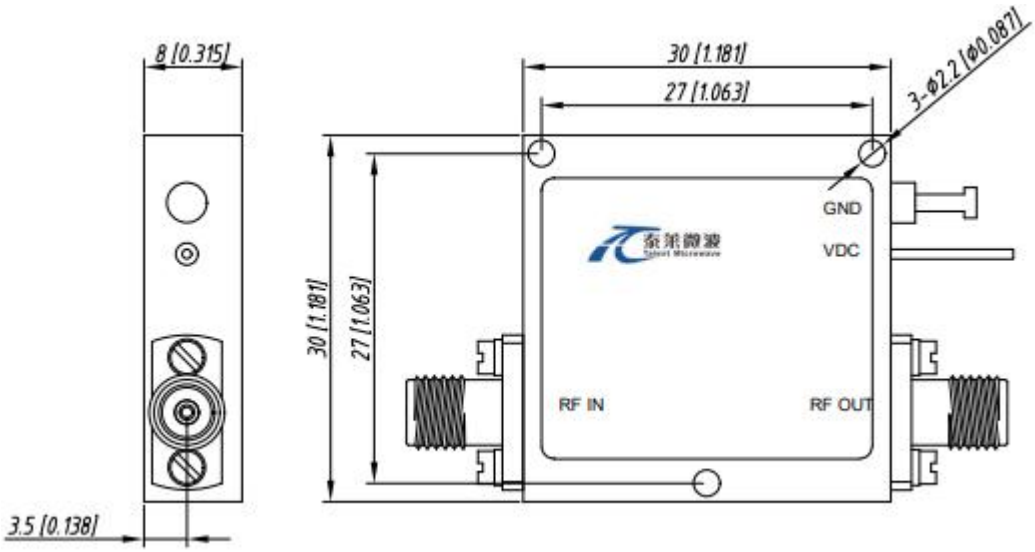
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm



***Heat Sink Required During Operation

ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

温度环境 Environmental Conditions:

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			

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订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLLA33G37G-18-35	Low Noise Amplifier, 33-37GHz, Noise Figure:3.5dB, Gain:18dB,P1dB:18dBm,+5V DC,Without Heatsink	Rev.1.1
TLLA33G37G-18-35-HS	Low Noise Amplifier, 33-37GHz, Noise Figure:3.5dB, Gain:18dB,P1dB:18dBm,+5V DC,With Heatsink	Rev.1.1