Low Noise Amplifier
26.5-40GHz/2.5dB NF/30dB Gain/0dBm P1dB   TLLA26.5G40G-30-30

TURLA26.5G40G-3030   is a low noise amplifier with a minimum small signal gain of 30 dB and a nominal noise figure of 2.5 dB across the frequency range of 26.5 to 40 GHz. The DC power requirement for the amplifier is +12 V DC/60 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 26.5-40GHz
- Gain: 30dB Min
- Noise Figure: 2.5dB 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	26.5		40	GHz
小信号增益 Small Signal Gain	30			dB
增益平坦度 Gain Flatness		±1.5	±2	dB
噪声系数 Noise Figure		2.5	3	dB
线性输出功率 Output P1dB	0			dBm
输出三阶交调 Output IP3		10		dBm
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		60		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	

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF Input Power	-25 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing: Unit:mm
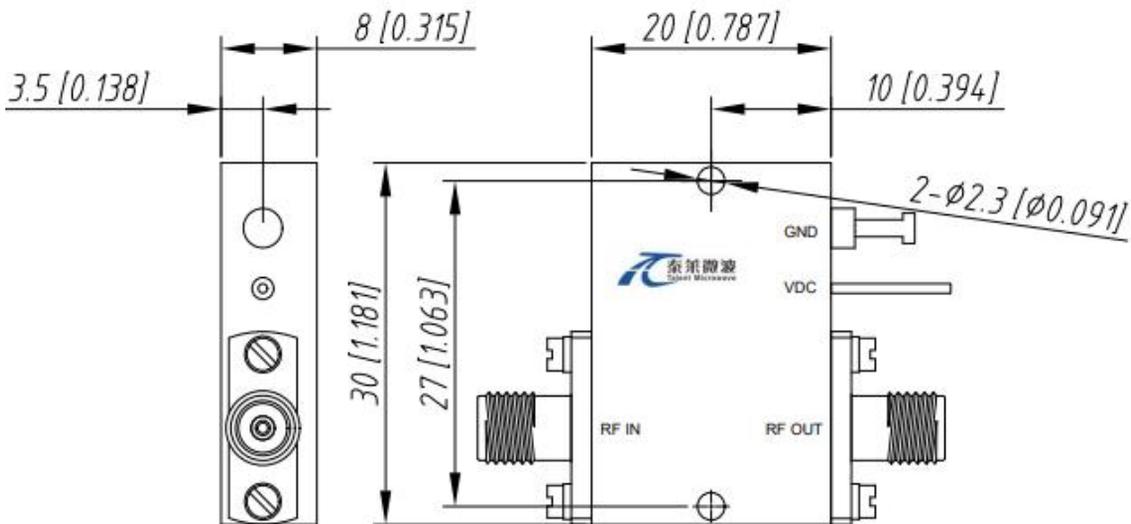
***Heat Sink Required During Operation

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			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA26.5G40G-3030	Low Noise Amplifier, 26.5-40GHz, Noise Figure:2.5dB, Gain:30dB,P1dB:0dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA26.5G40G-3030 HS	Low Noise Amplifier, 26.5-40GHz, Noise Figure:2.5dB, Gain:30dB,P1dB:0dBm,+12V DC,With Heatsink	Rev.1.1