

TURLA25.5G27G-4827

TURLA25.5G27G-4827 is a low noise amplifier with a typical small signal gain of 48 dB and a nominal noise figure of 2.7 dB across the frequency range of 25.5 to 27 GHz. The DC power requirement for the amplifier is +12 V DC/60 mA. The input port configuration offers coax adapter structure with WR-34 and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 25.5-27GHz
- Gain: 48dB Typ
- Noise Figure: 2.7dB 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	25.5		27	GHz
小信号增益 Small Signal Gain		48		dB
增益平坦度 Gain Flatness		±1		dB
噪声系数 Noise Figure		2.7		dB
线性输出功率 Output P1dB		13		dBm
带外抑制 Rejection@ < 25GHz	35			dB
带外抑制 Rejection@ > 27.5GHz	35			dB
输入驻波 Input VSWR		1.6		:1
输出驻波 Output VSWR		1.6		:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		60		mA
阻抗 Impedance	50			Ohms

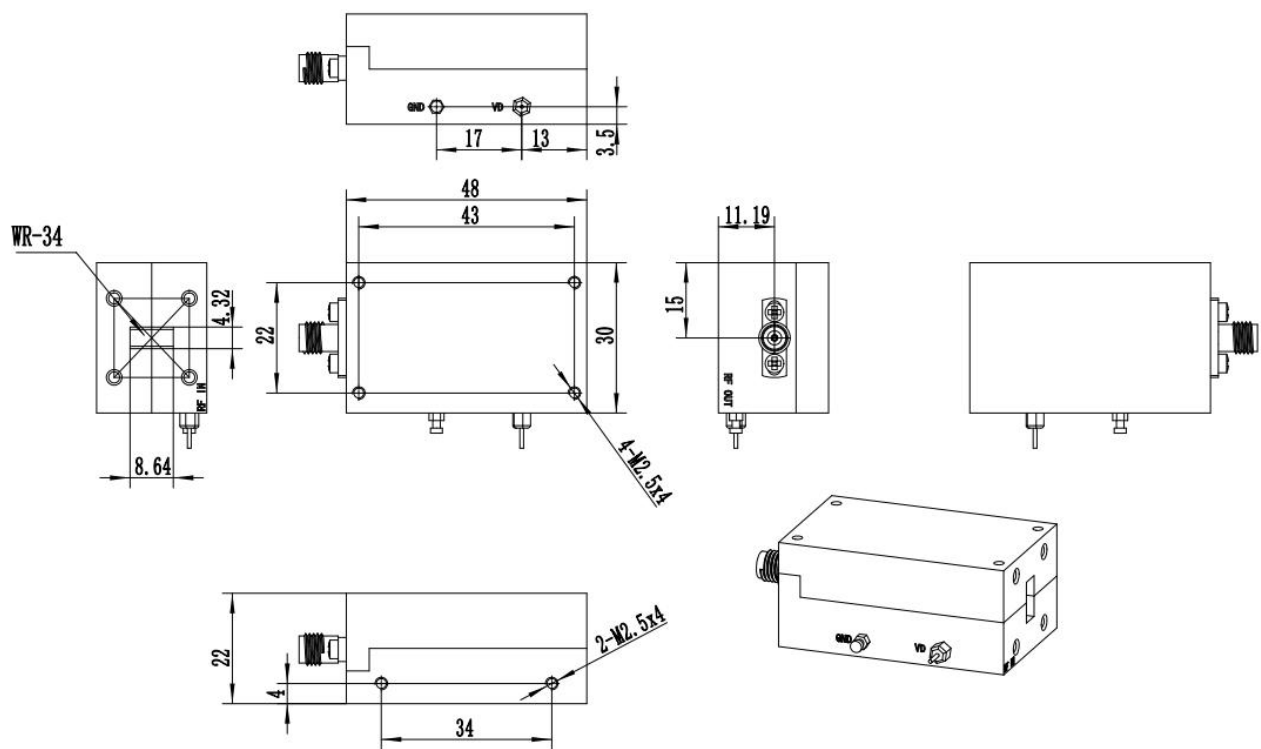
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	WR34/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	48*30*22	mm

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	+5 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

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	10,000			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
TURLA25.5G27G-4827	Low Noise Amplifier, 25.5-27GHz, Noise Figure:2.7dB, Gain:48dB,P1dB:13dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA25.5G27G-4827 HS	Low Noise Amplifier, 25.5-27GHz, Noise Figure:2.7dB, Gain:48dB,P1dB:13dBm,+12V DC,With Heatsink	Rev.1.1