

Model:TLPA2G27G-40-33

**Solid State High Power Amplifier
2-27GHz,Gain:40dB,Psat:33dBm**

Feature:

- Ultra Wide Band: 2-27 GHz
- Gain: 40dB Typ
- Psat Output Power: 33dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	2-27			GHz
功率增益 Power Gain	33			dB
小信号增益 Small Signal Gain		40		dB
小信号增益平坦度 Small Signal Gain flatness		±3		dB
饱和输出功率 Output Psat	33	34		dBm
线性输出功率 Output P1dB		30		dBm
输入功率 Input Power		0	5	dBm
噪声系数 Noise Figure		4		dB
杂散 Spurious@Pout=33dBm	60			dBc
谐波 Harmonics@Pout=33dBm	10			dBc
输入驻波 Input VSWR			2.0	:1
输出驻波 Output VSWR		2.0		:1
直流电压 DC Voltage		+18		V DC
直流供电 DC power supply			2	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

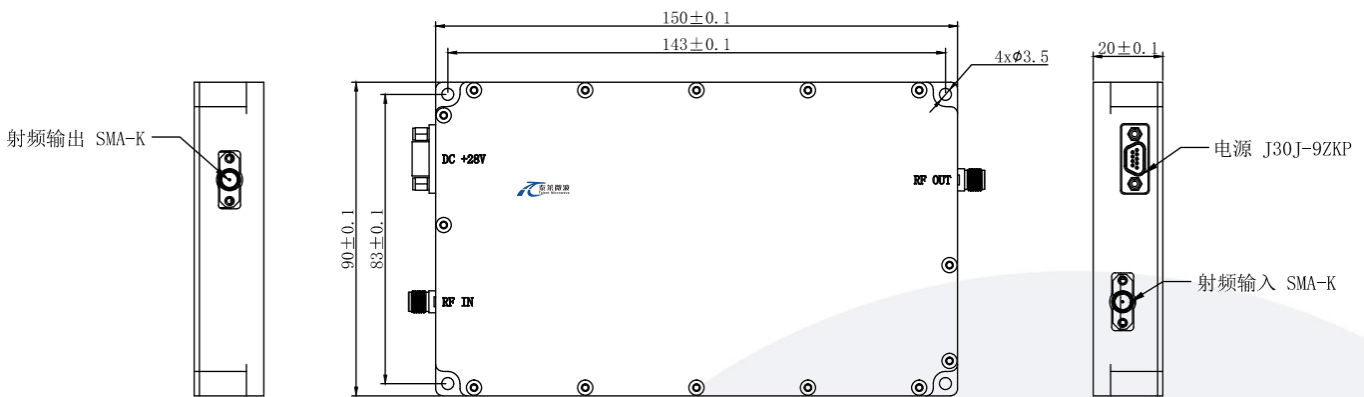
参数Parameter	指标 Value	单位 Units
输入输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
DC加电接口 DC Power Interface	J30J-9ZKP	
尺寸 Size	150*90*20	mm
重量 Weight	0.5	Kg

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

外形尺寸Outline Drawing:

Unit: mm



温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-45		+65	°C
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			
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 Part Number	描述 Description	版本号Revision
TLPA2G27G-40-33	Solid State High Power Amplifier,2-27GHz,Gain:40dB,Psat:33dBm,18V DC, Without Heatsink	Rev.1.1
TLPA2G27G-40-33-HS	Solid State High Power Amplifier,2-27GHz,Gain:40dB,Psat:33dBm,18V DC, With Heatsink	Rev.1.1