

Model:TLPA2G20G-35-35
Power Amplifier
2-20GHz,Gain:35dB,Psat:35dBm
Feature:

- Ultra Wide Band:2-20GHz
- Gain:35dB Min
- Psat Output Power:35dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	2-20			GHz
增益 Gain	35			dB
增益平坦度 Gain Flatness		±2		dB
线性输出功率 Output P1dB		30		dBm
饱和输出功率 Output Psat	35			dBm
噪声系数 Noise Figure		2.5		dB
杂散 Spurious@Pout=35dBm			-60	dBc
谐波 Harmonics@Pout=35dBm			-10	dBc
输入驻波 Input VSWR			2	:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage		+18		V DC
直流电流 DC Supply Current			1.5	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

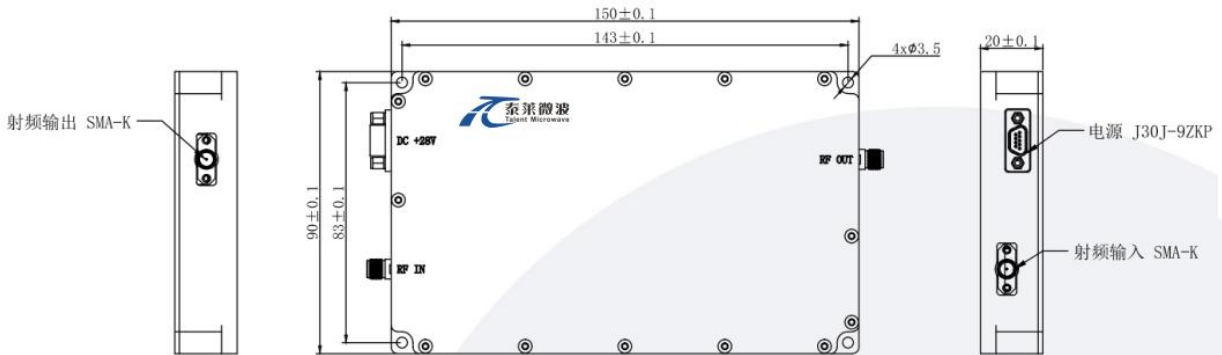
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias	TBD	
尺寸 Size	150*90*20	mm
重量 Weight	500	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	1-5:+18V 6-9:GND
输入功率 RF Input Power	5dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸Outline Drawing:

Unit: mm



*****Heat Sink Required During Operation**



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	50000			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
TLPA2G20G-35-35	Power amplifier 2-20GHz, Gain:35dB, Psat:35dBm, +18V DC, Without Heatsink.	Rev.1.1
TLPA2G20G-35-35-HS	Power amplifier 2-20GHz, Gain:35dB, Psat:35dBm, +18V DC, With Heatsink.	Rev.1.1