

Power Amplifier

2-22GHz/35dB Gain/35dBm Psat

Model: TLPA2G22G-35-35

TLPA2G22G-35-35 is a power amplifier with a minimum power gain of 35 dB and a minimum Psat of 35 dBm across the frequency range of 2 to 22 GHz. The DC power requirement for the amplifier is +18VDC/4A. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 2-22GHz
- Gain: 35dB Min
- Output Power Psat: 35dBm Min
- Protection: Over voltage protection
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	2		22	GHz
功率增益 Power Gain	35			dB
增益平坦度 Gain Flatness		±4		dB
线性输出功率 Output P1dB		28		dBm
饱和输出功率 Output Psat	35			dBm
杂散 Spurious@Pout=35dBm			-50	dBc
谐波抑制 Harmonic@Pout=35dBm			-10	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		+18	+19	V DC
直流电流 DC Supply Current		4	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	2.92mm Female/2.92mm Female	
供电接口 DC Supply Connector	J30J-15ZKP	Pin1~8:+18V Pin9~15:GND
尺寸 Size	150*90*20(Without heatsink) 150*90*66.5(With heatsink)	mm
重量 Weight	≤2.5	Kg

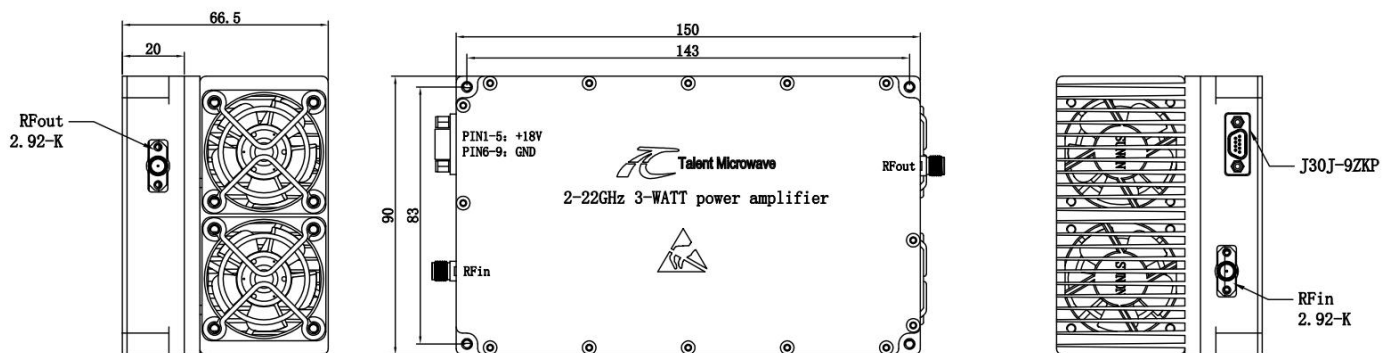
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+19 V
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 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*	-40		+60	°C
存储温度 Non-operating Temperature*	-50		+70	°C
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			

*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLPA2G22G-35-35-HS	Power amplifier 2-22GHz, Gain:35dB,Psat:35dBm,+18V DC,With Heatsink	Rev.1.1