

Power Amplifier

27-32GHz/43dB Gain/43dBm Psat

Model: TLPA27G32G-43-43

TLPA27G32G-43-43 is a power amplifier with a minimum power gain of 43 dB and a minimum Psat of 43 dBm across the frequency range of 27 to 32 GHz. The DC power requirement for the amplifier is +22 VDC/7 A. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 27-32GHz
- Gain: 43dB Min
- Output Power Psat: 43dBm Min
- Good Power and Gain Flatness
- 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	27-32			GHz
功率增益 Power Gain	43			dB
增益平坦度 Gain Flatness		±3		dB
饱和输出功率 Output Psat	43			dBm
杂散 Spurious@Pout=43dBm			-50	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		22		V DC
直流电流 DC Supply Current		7	8.5	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

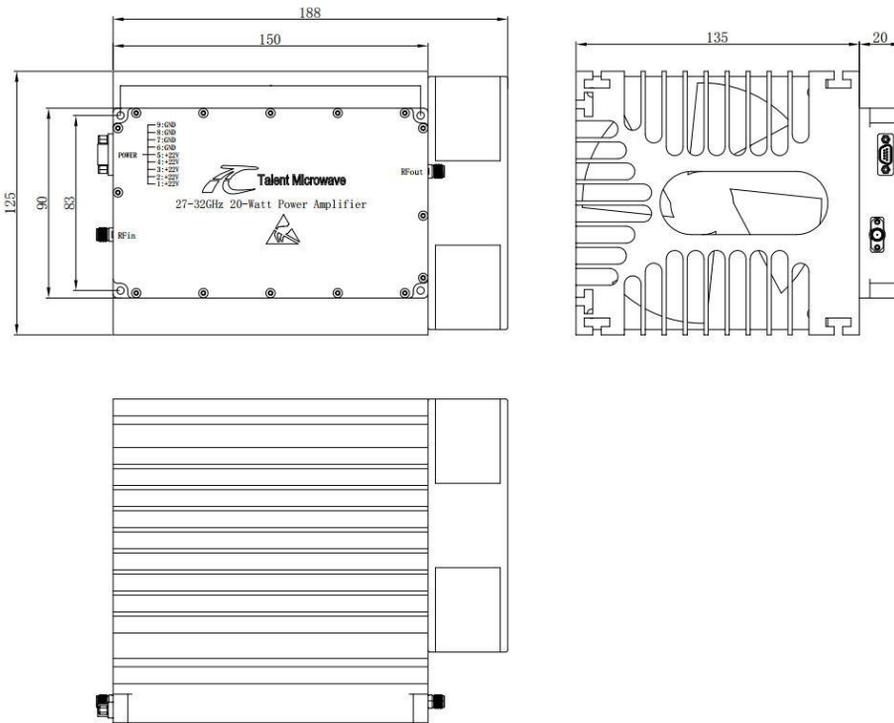
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
直流偏置 DC Bias	J30J-9ZKP	Pin1~5:+22V Pin6~9:GND
尺寸 Size	150*90*20(Without heatsink) 188*125*155(with heatsink)	mm
重量 Weight	400	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+24 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



温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+50	°C
存储温度 Non-operating Temperature*	-50		+60	°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
TLPA27G32G-43-43	Power amplifier 27-32GHz, Gain:43dB,Psat:43dBm,+22V DC,Without Heatsink	Rev.1.1
TLPA27G32G-43-43-HS	Power amplifier 27-32GHz, Gain:43dB,Psat:43dBm,+22V DC,With Heatsink	Rev.1.1