

Power Amplifier

26.5-40GHz/43dB Gain/43dBm Psat

Model: TLPA26.5G40G-43-43

TLPA26.5G40G-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 26.5 to 40 GHz. The DC power requirement for the amplifier is +22 VDC/15 A. The input port configuration is a female 2.92mm connector and the output is a WR28 waveguide.

Features:

- Frequency range: 26.5-40GHz
- 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	26.5-40			GHz
功率增益 Power Gain	43			dB
增益平坦度 Gain Flatness		±4.5		dB
饱和输出功率 Output Psat	43	44		dBm
杂散 Spurious			-50	dBc
输入驻波 Input VSWR		2	2.5	:1
直流电压 DC Voltage		22	24	V DC
直流电流 DC Supply Current			15	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

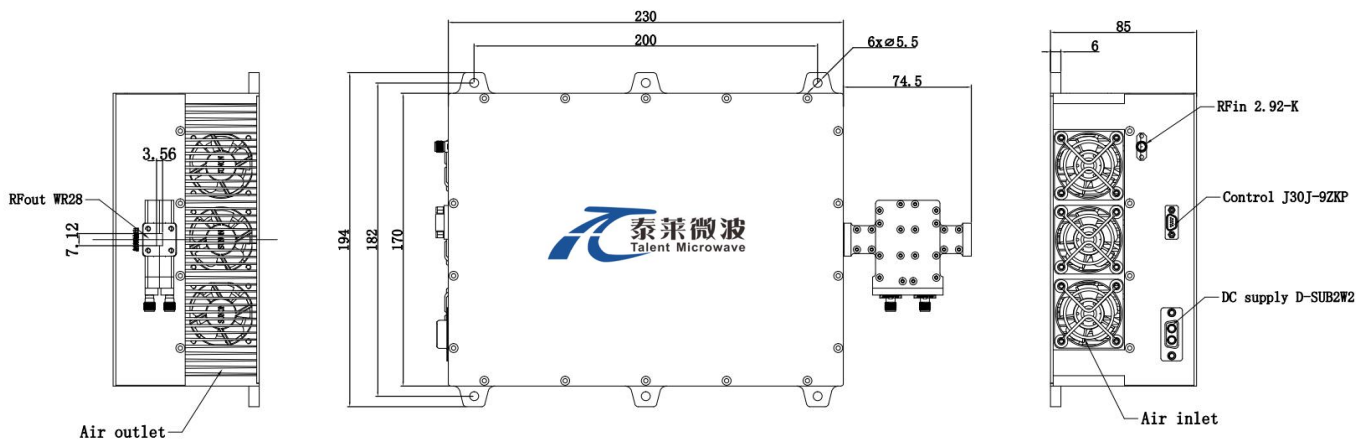
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/WR28	
DC加电接口 DC Power Interface	SUB-2W2	Pin1:+22V Pin2:GND
控制接口 Control Connector	J30J-9ZKP	
尺寸 Size	230*194*85	mm
重量 Weight	5	Kg

绝对最大值 Absolute Maximum Ratings:

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



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



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

控制接口引脚定义 Control Connector Pin Define:

J30J-9ZKP Define	
引脚 Pin	功能 Function
Pin1	TTL(high for open,low for close)
Pin2	Current Monitor
Pin3	Temperature Monitor
Pin4	0.5dB Attenuation
Pin5	1dB Attenuation
Pin6	2dB Attenuation
Pin7	4dB Attenuation
Pin8	8dB Attenuation
Pin9	16dB Attenuation

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
TLPA26.5G40G-43-43	Power amplifier 26.5-40GHz, Gain:43dB,Psat:43dBm,+22V DC,Without Heatsink	Rev.1.1
TLPA26.5G40G-43-43-HS	Power amplifier 26.5-40GHz, Gain:43dB,Psat:43dBm,+22V DC,With Heatsink	Rev.1.1