

Power Amplifier

6-18GHz/56dB Gain/56dBm Psat

Model: TLPA6G18G-56-56

TLPA6G18G-56-56 is a power amplifier with a minimum power gain of 56 dB and a minimum Psat of 56 dBm across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +TBD VDC. The input port configuration offers coax adapter structure with 2.92mm female and output port is WRD500.

Features:

- Frequency range:6-18GHz
- Gain: 55dB Min
- Output Power Psat: 55dBm 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	6		18	GHz
功率增益 Power Gain	56			dB
增益平坦度 Gain flatness		±4.5		dB
饱和输出功率 Output Psat	56			dBm
线性输出功率 Output P1dB		52		dBm
杂散 Spurious@Pout=56dBm			-60	dBc
谐波 Harmonics@Pout=56dBm			-15	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		28		V DC
功耗 Power Consumption			7	KW
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/WRD500D36	
供电接口 Power Supply Connector	D-SUB-8W8	
尺寸 Size	310*310*235.22	mm
重量 Weight	≤25	Kg

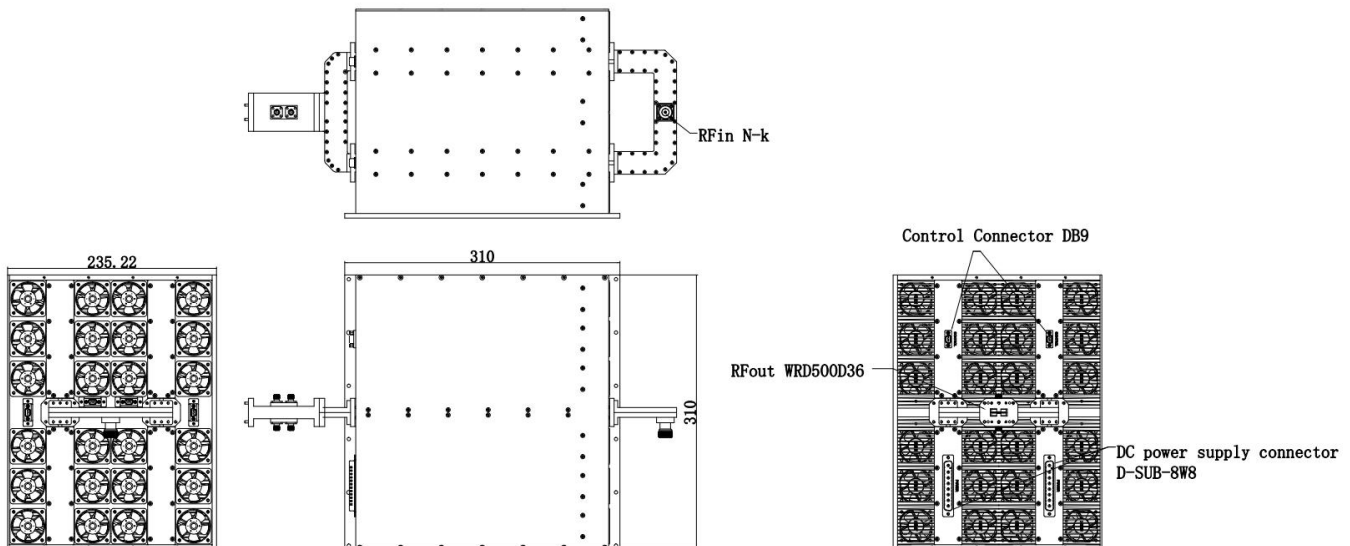
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+29 VDC
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; Tolerance:±0.1mm



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*	-20		+40	°C
存储温度 Non-operating Temperature*	-30		+50	°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			

*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
TLPA6G18G-56-56	Power amplifier 6-18GHz, Gain:56dB,Psat:56dBm,TBD V DC,With Heatsink	Rev.1.0