

Power Amplifier

6-18GHz/55dB Gain/55dBm Psat

Model: TLPA6G18G-55-55

TLPA6G18G-55-55 is a power amplifier with a minimum power gain of 55 dB and a minimum Psat of 55 dBm across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +28 VDC/4000 W. The input port configuration offers coax adapter structure with SMA 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	55			dB
增益平坦度 Gain Flatness		±5		dB
饱和输出功率 Output Psat	55			dBm
杂散 Spurious@Pout=55dBm			-55	dBc
谐波 Harmonic@Pout=55dBm			-15	dBc
直流电压 DC Voltage		+28		V DC
功耗 Power consumption			4000	W
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 WRD500	
供电接口 Power Supply Connector	Y50DX-1804	Pin1~2 : +28V Pin3~4: GND
尺寸 Size	270*276*207.25	mm
重量 Weight	≤25	Kg

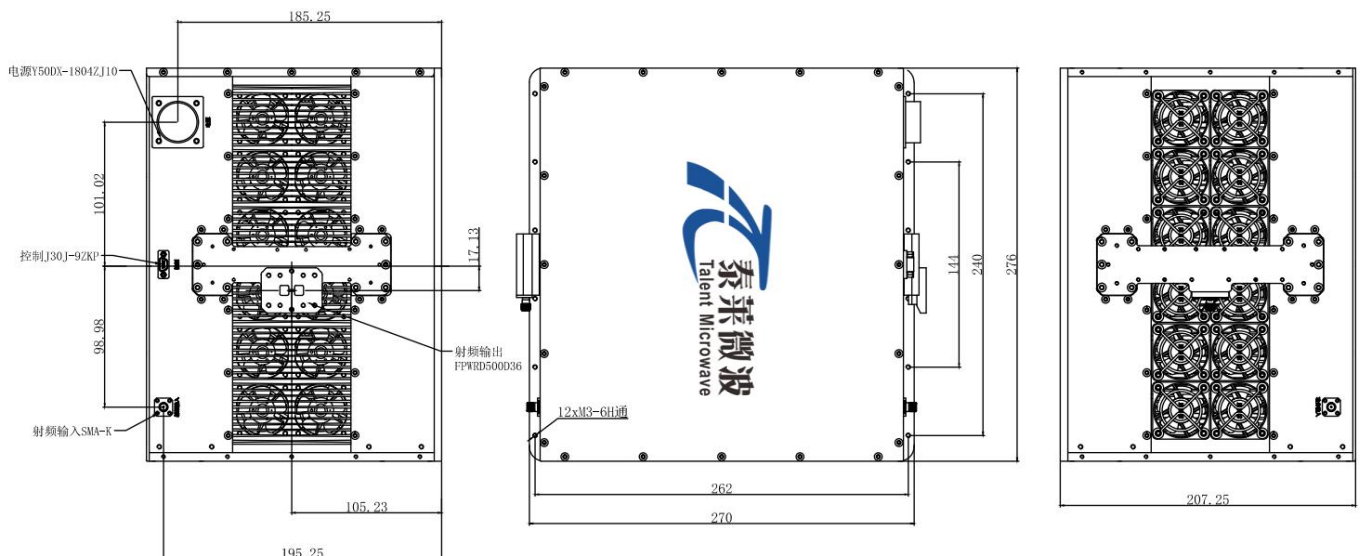
绝对最大值 Absolute Maximum Ratings:

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



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		+50	°C
存储温度 Non-operating Temperature*	-30		+60	°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-55-55	Power amplifier 6-18GHz, Gain:55dB,Psat:55dBm,+28V DC,With Heatsink	Rev.1.1