

Model:TLPA1G18G-43-43
Power Amplifier
1-18GHz,Gain:43dB,Psat:43dBm
Feature:

- Ultra Wide Band: 1-18GHz
- Gain:43 dB Min
- Psat Output Power: 43dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	1-18			GHz
增益 Gain	43			dB
增益平坦度 Gain Flatness		±5		dB
饱和输出功率 Output Psat	43			dBm
杂散 Spurious			-60	dBc
谐波 Harmonics			-10	dBc
输入驻波 Input VSWR			2.5	:1
直流电压 DC Voltage	+28			V DC
功耗 Power Consumption			40	W
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

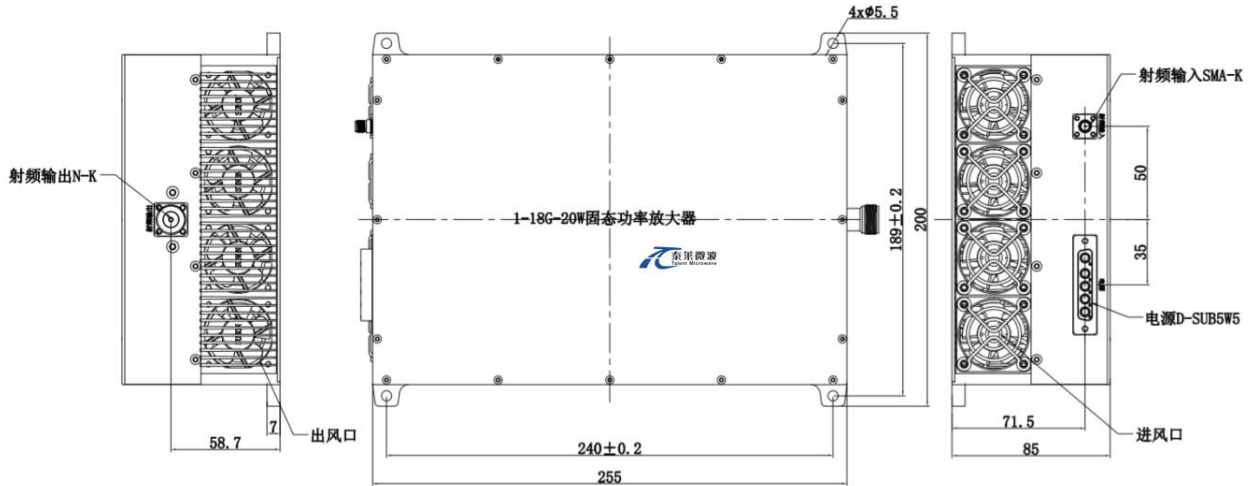
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female/SMA Female	
监控和控制接口 Monitor and control interface	D-SUB7W2	
尺寸 Size	255*200*85	mm
重量 Weight	7.5	Kg

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+28V
输入功率 RF Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



D-SUB7W2 Define

引脚 Pin	功能 Function
A1	+28V
A2	GND

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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000		30,000	feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号Revision
TLPA1G18G-43-43	Power amplifier 1-18GHz,Gain:43dB,Psat:43dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA1G18G-43-43-HS	Power amplifier 1-18GHz,Gain:43dB,Psat:43dBm, +28V DC,With Heatsink	Rev.1.1