

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

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

电气特性 Electrical:

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 Psat	43			dBm
杂散 Supurious@Pout=43dBm	60			dBc
谐波抑制 Harmonic@Pout=43dBm	10			dBc
输入功率 Input Power		0	10	dBm
输入驻波 Input VSWR			2.0	: 1
直流电压 DC Voltage	+28V			V DC
功耗 Power Consumptio			400	W
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

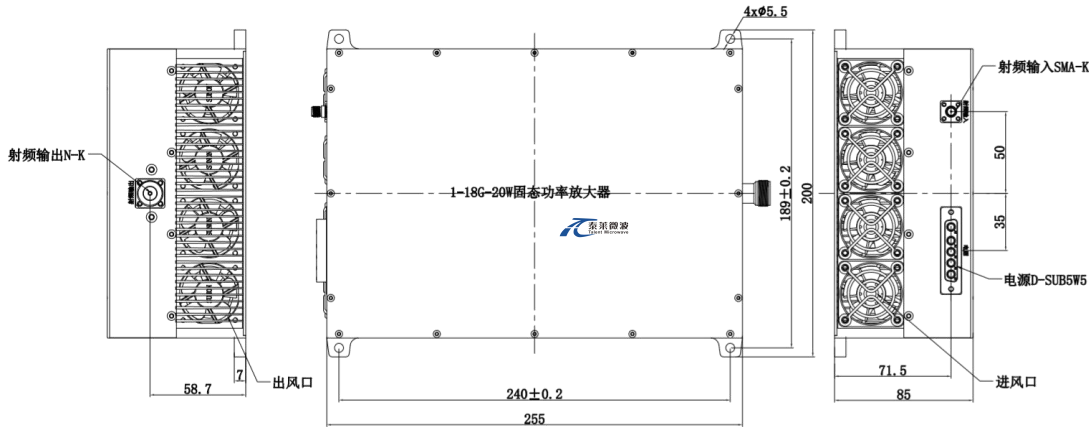
参数Parameter	指标 Value
射频输入接口 RF Input Connector	SMA-K
射频输出接口 RF Output Connector	SMA-K/N-K
监控和控制接口 Monitor and control interface	D-SUB7W2
尺寸 Size	255mm*200mm*85mm
重量 Weight	7.5KG


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+28 V
输入功率 RF INPUT POWER	+10 dBm
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		30000	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			

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