

**Model:TLPA18G40G-43-43**
**Power Amplifier**  
**18-40GHz,Gain:43dB,Psat:43dBm**
**Feature:**

- Ultra Wide Band: 18-40GHz
- Gain: 43dB Min
- Psat Output Power: 43dBm Min
- Good Power and Gain Flatness
- 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	18-40			GHz
功率增益 Power Gain	43			dB
饱和输出功率 Output Psat	43			dBm
输入功率Input Power	-3	0	10	dBm
杂散Spurious@Pout=40dBm	50			dBc
输入驻波 Input VSWR		2.0	2.5	:1
直流电压 DC Voltage		+18	+19	V DC
电流 Current			50	A
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

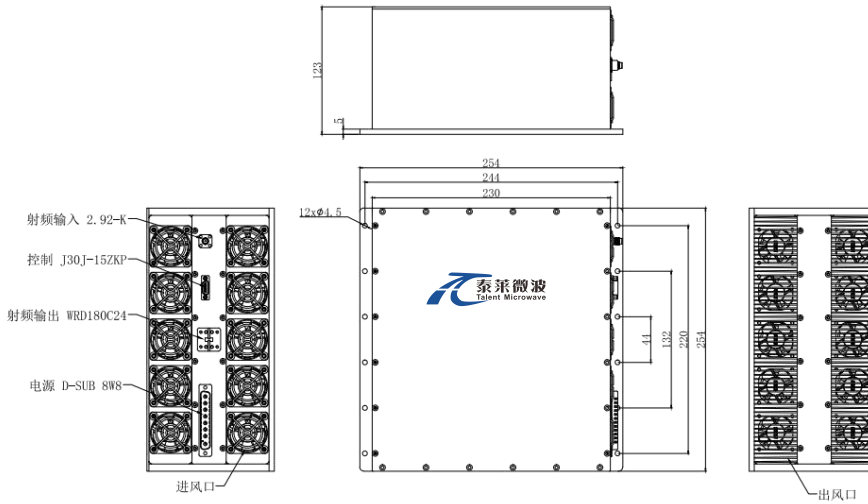
参数Parameter	指标 Value	单位 Units
输入输出接口Input /Output Connector	2.92mm Female/WRD180C24	
DC加电接口 DC Power Interface	SUB-8W8	
控制及检测接口 Control and Test Connector	J30J-15ZKP	
尺寸 Size	254*254*123	mm
重量 Weight	<25	Kg

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	19 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(Inches)



SUB-8W8 Define	
引脚 Pin #	功能 Function
A1-4	+18V
A5-8	GND
PIN1	TTL ( high for open, low for close)
PIN2	Current Monitor
PIN3	Temperature Monitor

**\*\*\*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	0		+40	°C
存储温度 Non-operating Temperature	-45		+65	°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			

**订货信息 Ordering Information:**

标准型号 Part Number	描述 Description	版本号Revision
TLPA18G40G-43-43	Power amplifier 18-40GHz,Gain:43dB,Psat:43dBm,+19V DC,Without Heatsink	Rev.1.1
TLPA18G40G-43-43-HS	Power amplifier 18-40GHz,Gain:43dB,Psat:43dBm,+19V DC,With Heatsink	Rev.1.1