

**Model:TLPA18G40G-47-47**
**Power Amplifier**
**18-40GHz, Gain:47dB, Psat:47dBm**
**Feature:**

- Ultra Wide Band: 18-40GHz
- Gain: 47dB Min
- Psat Output Power: 47dBm 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	47			dB
饱和输出功率 Output Psat	47			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			110	A
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

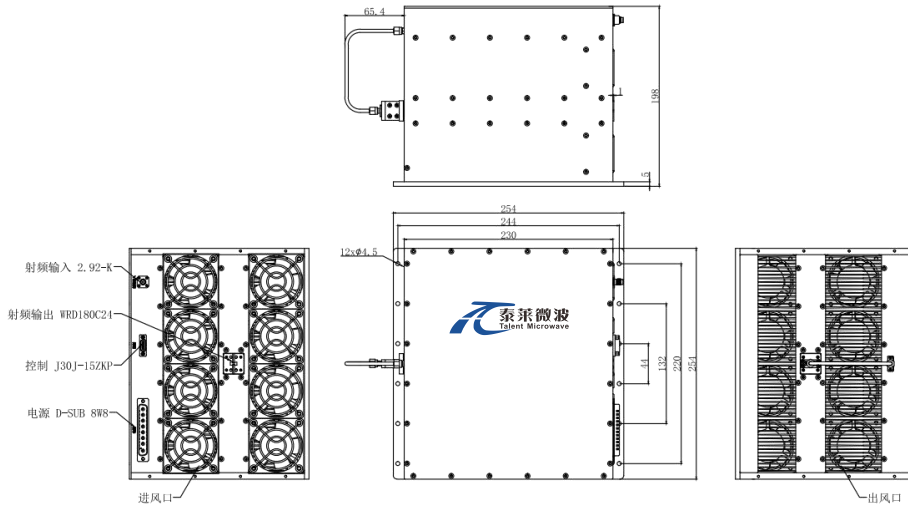
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92mm Female/WRD180C24	
DC加电接口 DC Power Interface	SUB-8W8	
控制及检测接口 Control and Test interface	J30J-9ZKP	
尺寸 Size	254*254*198	mm
重量 Weight	<30	Kg

**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-47-47	Power amplifier 18-40GHz,Gain:47dB,Psat:47dBm, +19V DC,Without Heatsink	Rev.1.1
TLPA18G40G-47-47-HS	Power amplifier 18-40GHz,Gain:47dB,Psat:47dBm, +19V DC,With Heatsink	Rev.1.1