

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

- Ultra Wide Band:18-40GHz
- Gain:40dB Min
- Psat Output Power:40dBm 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	18-40			GHz
增益 Gain	40			dB
饱和输出功率 Output Psat	40	41		dBm
杂散 Spurious			-50	dBc
谐波 Harmonics			-15	dBc
输入驻波 Input VSWR		2	2.5	:1
直流电压 DC Voltage		+18	+19	V DC
直流电流 DC Sopply Current		11		A
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

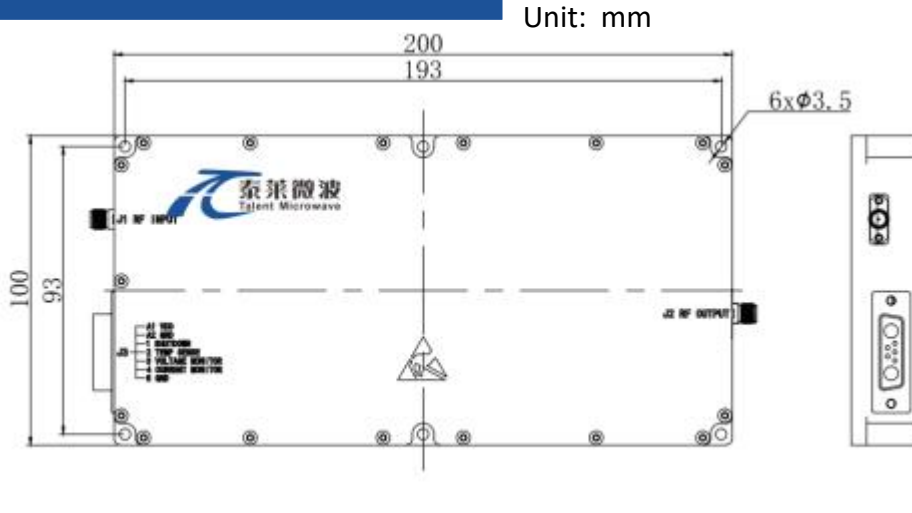
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92 Female/2.92 Female	
DC加电接口 DC Power Interface	SUB-7W2	
尺寸 Size	200*100*23	mm
重量 Weight	3	Kg

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+19V
输入功率 RF Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
 Benchtop Amplifier**

外形尺寸 Outline Drawing:



SUB-7W2 Define	
引脚 Pin	功能 Function
A1	+18V
A2	GND
PIN1	TTL(high for open, low for close)
PIN2	Current Monitor
PIN3	Tempert ure Monitor
PIN4/5	GND

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



温度环境 Environmental Conditions:

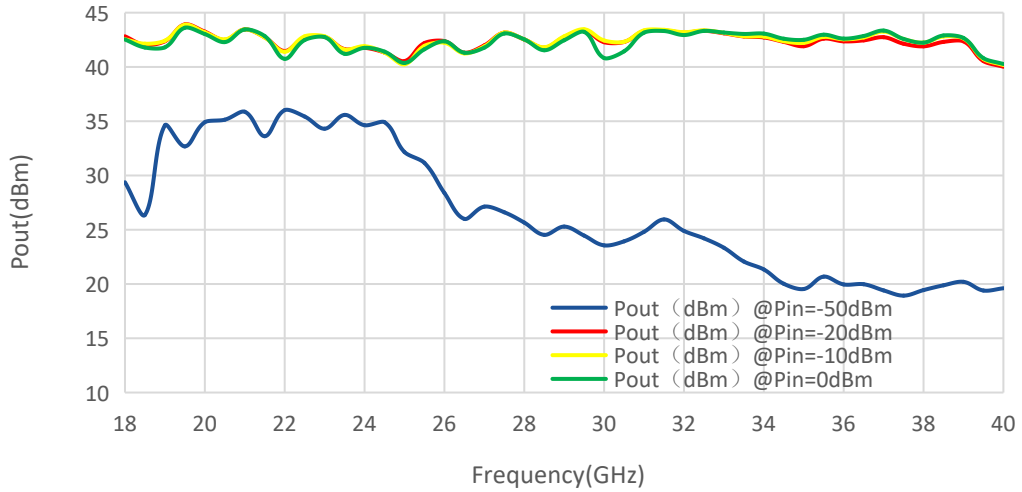
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	0		+40	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

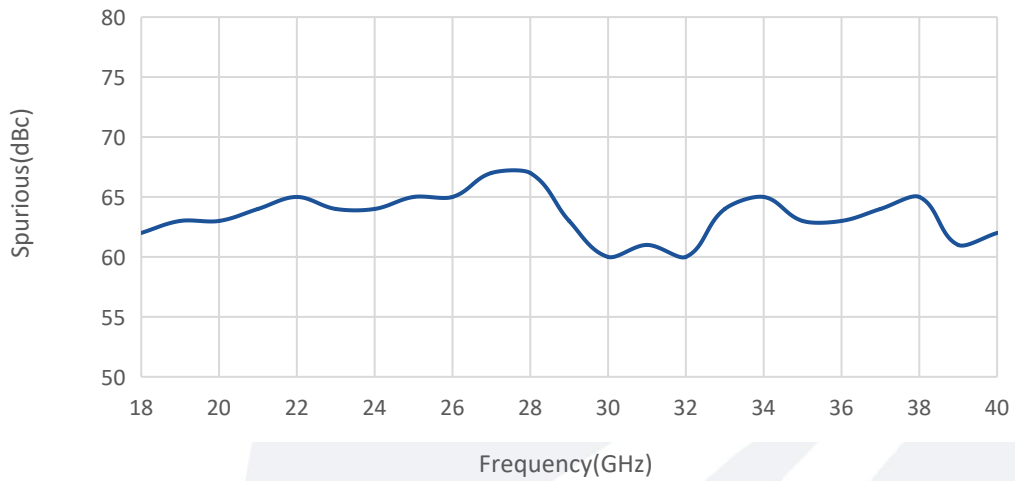
标准型号 Part Number	描述 Description	版本号 Revision
TLPA18G40G-40-40	Power amplifier 18-40GHz, Gain 40dB, Psat:40dBm, +18V DC, Without Heatsink.	Rev.1.1
TLPA18G40G-40-40-HS	Power amplifier 18-40GHz, Gain 40dB, Psat:40dBm, +18V DC, With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

Pout@Equal_Pin



Spurious vs Frequency



2nd Harmonic vs Frequency

