泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

Model:TLPA0.8G18G-37-37

Power Amplifier
0.8-18GHz,Gain:37dB,Psat:37dBm

Feature:

- Ultra Wide Band: 0.8-18GHz
- Gain:37dB Min
- Psat Output Power:37dBm 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	0.8-18			GHz
增益 Gain	37			dB
增益平坦度 Gain Flatness			±2.5	dB
饱和输出功率 Output Psat	37			dBm
杂散 Spurious@Pout=37dBm			-60	dBc
谐波 Harmonics@Pout=37dBm		-20		dBc
负载失配保护 Load VSWR Protection	3.0:1(< 1minute at rated pout)			
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		+28		V DC
直流电流 DC Supply Current			3	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	SMA Female/SMA Female	
直流偏置 DC Bias	J30J-9ZKP	
尺寸 Size	150*90*20	mm
重量 Weight	≤1000	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	0 dBm (< 10 sec without damage)
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System
Benchtop Amplifier

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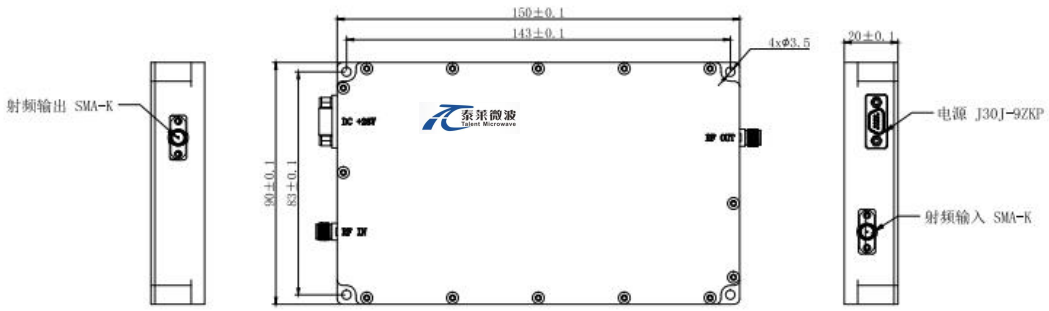
外形尺寸Outline Drawing:

Unit: mm



引脚 Pin	功能 Function
1-5	+28V
6-9	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	-20		+65	℃
存储温度 Non-operating Temperature	-40		+85	℃
相对湿度 Relative humidity	5-95			%
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
TLPA0.8G18G-37-37	Power amplifier 0.8-18GHz,Gain:37dB,Psat:37dBm,+28V DC,Without Heatsink.	Rev.1.0
TLPA0.8G18G-37-37-HS	Power amplifier 0.8-18GHz,Gain:37dB,Psat:37dBm,+28V DC,With Heatsink.	Rev.1.0

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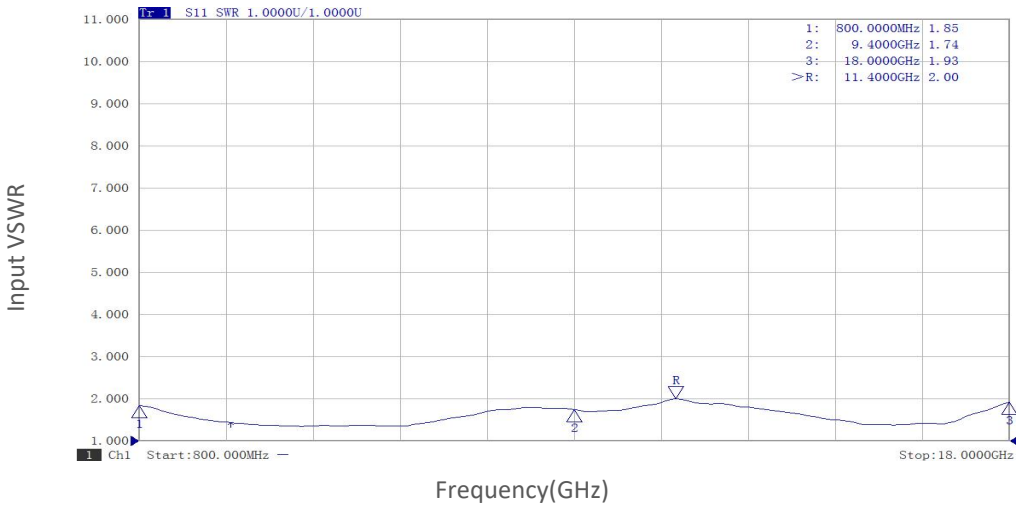
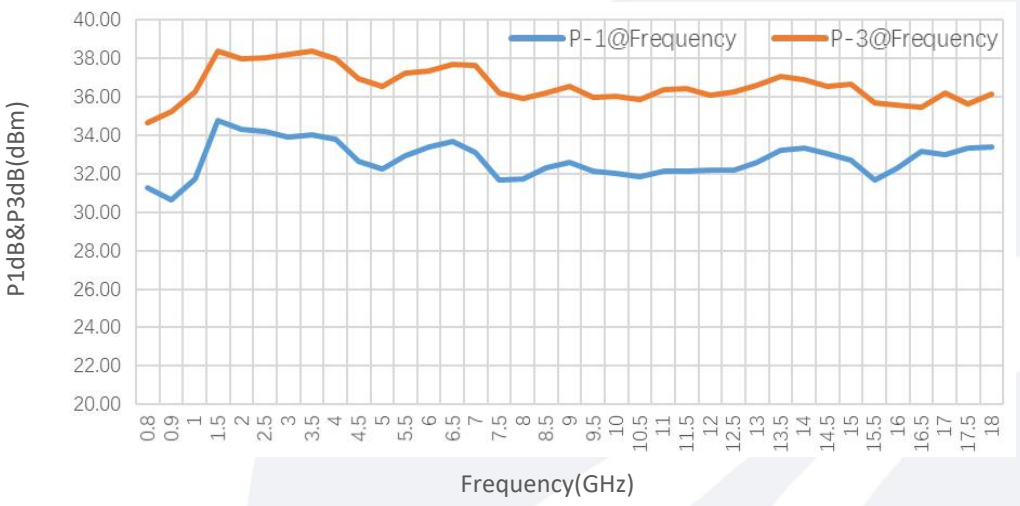
典型曲线 Typical Performance Data:

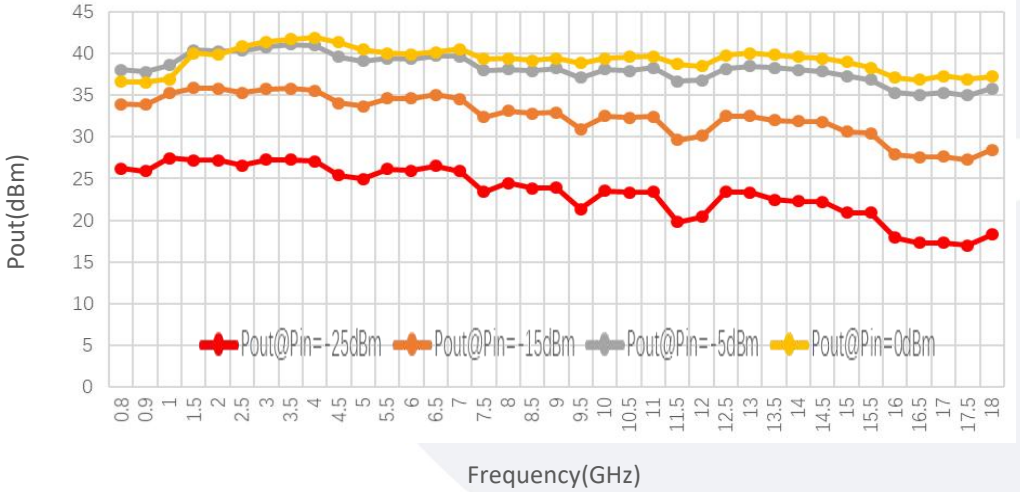
Input VSWR vs Frequency



P1dB&P3dB vs Frequency



Pout@Equal_Pin



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