泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Power Amplifier

2-6GHz /50 dB Gain/50 dBm Psat Model: TLPA2G6G-50-50

TLPA2G6G-50-50 is a power amplifier with a typical small signal gain of 50 dB and a nominal Psat of 50 dBm across the frequency range of 2 to 6 GHz. The DC power requirement for the amplifier is +28 VDC/800W. The input and output port configuration offers coax adapter structure with SMA Female/N Female.

Features:

- Ultra Wide Band: 2-6GHz
- Gain: 50dB Min
- Output Power Psat: 50dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range		2-6		GHz
增益 Gain	50			dB
增益平坦度 Gain Flatness		±3		dB
饱和输出功率 Output Psat	50			dBm
杂散 Spurious			-60	dBc
谐波 Harmonics		-10		dBc
输入驻波 Input VSWR			2.0	:1
直流电压 DC Voltage		+28		V DC
功耗 Power Consumption			800	W
阻抗 Impedance		50		Ohms

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机械特性 Mechanical Specifications:

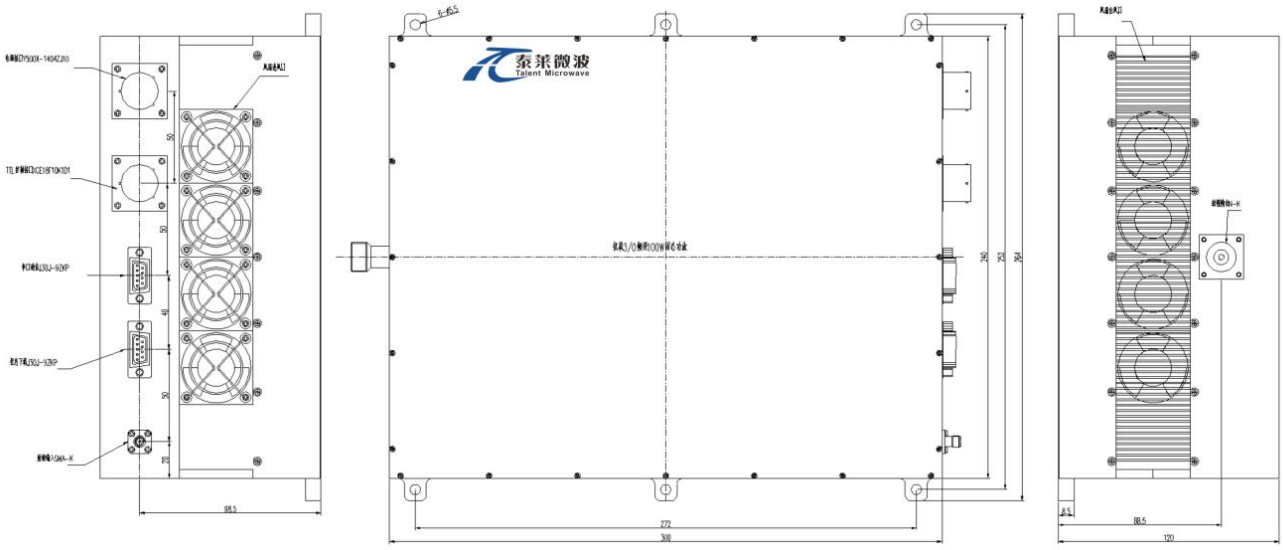
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/N Female	
DC家电接口 DC Power Interface	Y50DX-1404	
通信接口 Communication Interface	J30J-0ZKP	
尺寸 Size	300*264*120	mm
重量 Weight	10	Kg

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

外形图 Outline Drawing:

Unit:mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+60	℃
存储温度 Non-operating Temperature*	-45		+65	℃
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			

*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

标准型号 Base Number	描述 Desciption	版本号 Revision
TLPA2G6G-50-50	Power amplifier 2-6GHz,Gain:50dB,Psat:50dBm,+28V DC,Built in Fan Cooling .	Rev.1.1

Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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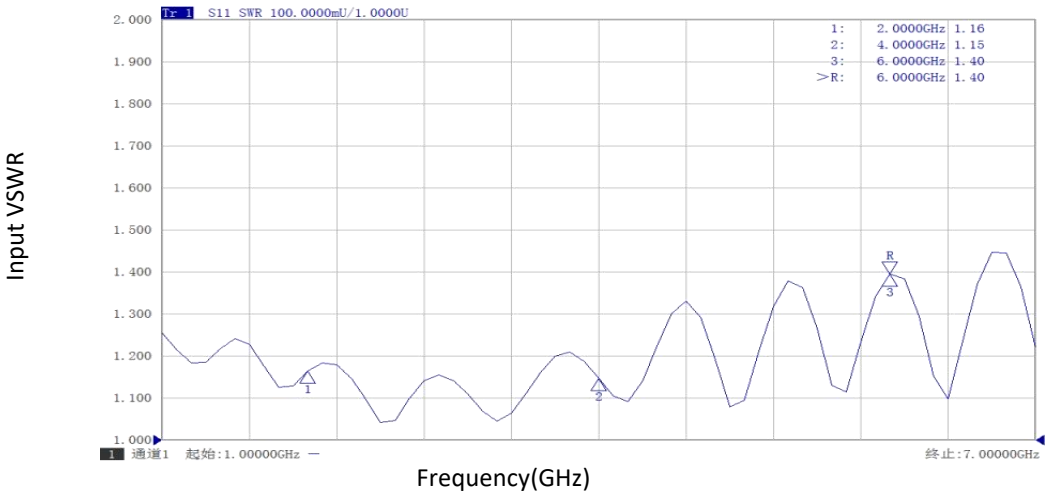
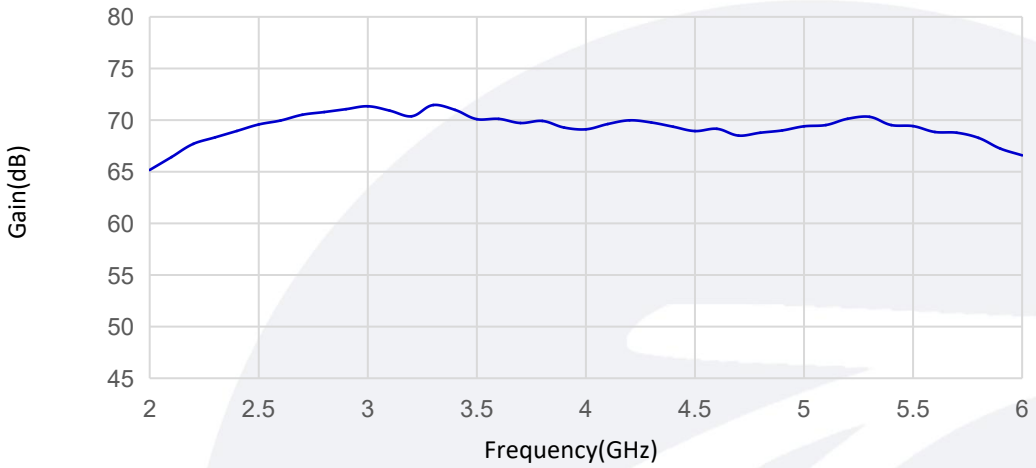
典型曲线 Typical Performance Data:

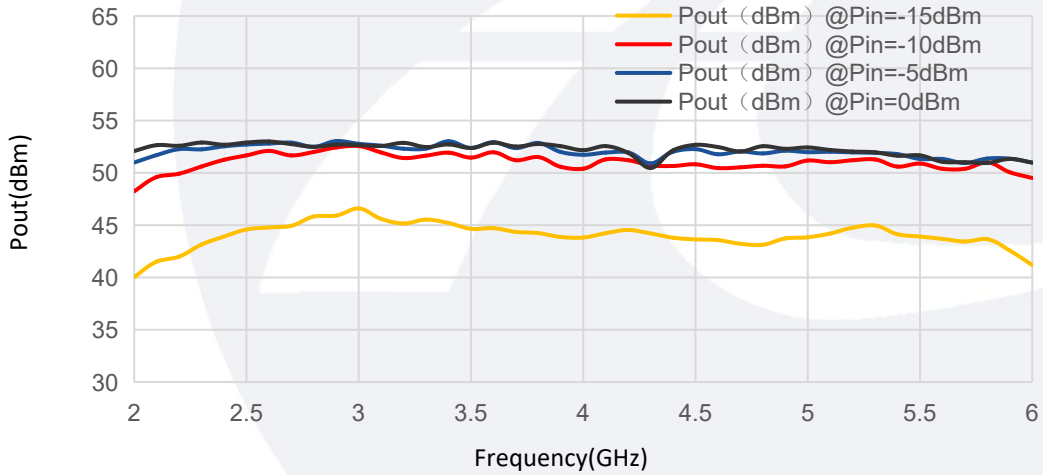
Input VSWR vs Frequency



Gain vs Frequency



Pout vs Frequency



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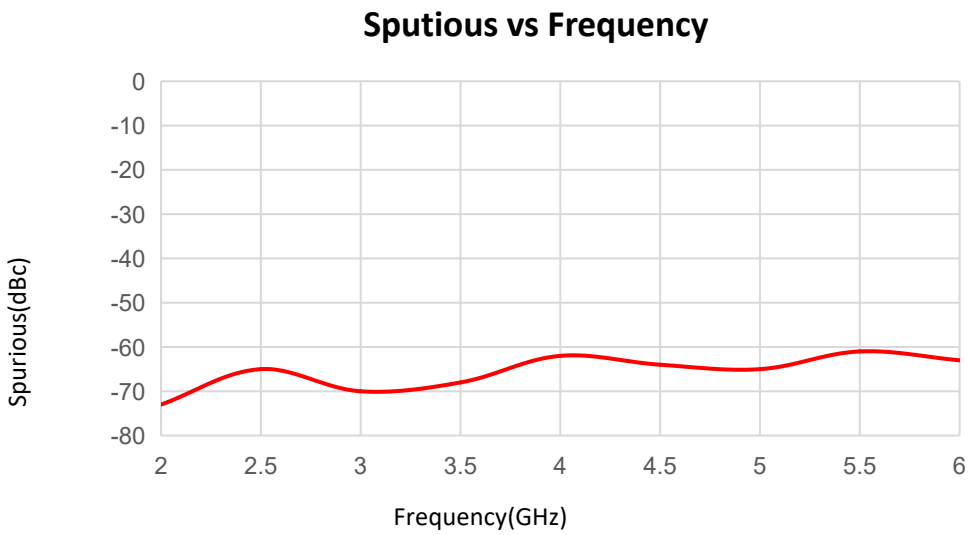

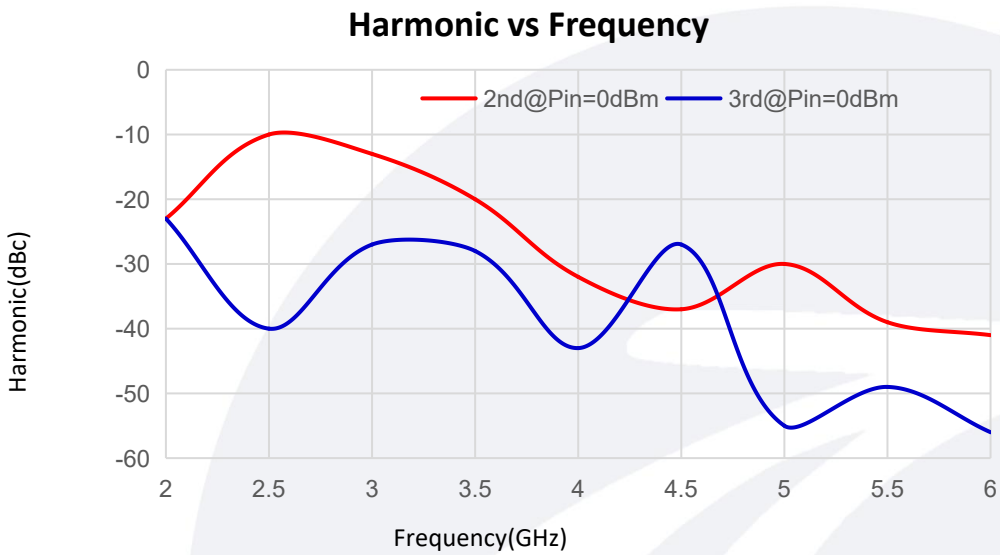

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