泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
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Model:TLPA2G4G-43-36

Power Amplifier 2-4GHz,Gain:43dB,Psat:36dBm

Feature:

- Ultra Wide Band:2-4GHz
- Gain:43dB Typ
- Psat Output Power:36dBm 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		2-4		GHz
增益 Gain	42	43		dB
增益平坦度 Gain Flatness		±2	±3	dB
线性输出功率 Output P1dB		34		dBm
饱和输出功率 Output Psat	36	37		dBm
谐波 Harmonics@Pout=36dBm			-10	dBc
输入驻波 Input VSWR		1.5	2	:1
直流电压 DC Voltage		+28		V DC
直流电流 DC Supply Current		0.7	2	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	Solder Pin	
尺寸 Size	100*70*15	mm
重量 Weight	150	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+28V
输入功率 RF Input Power	0dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System Benchtop Amplifier

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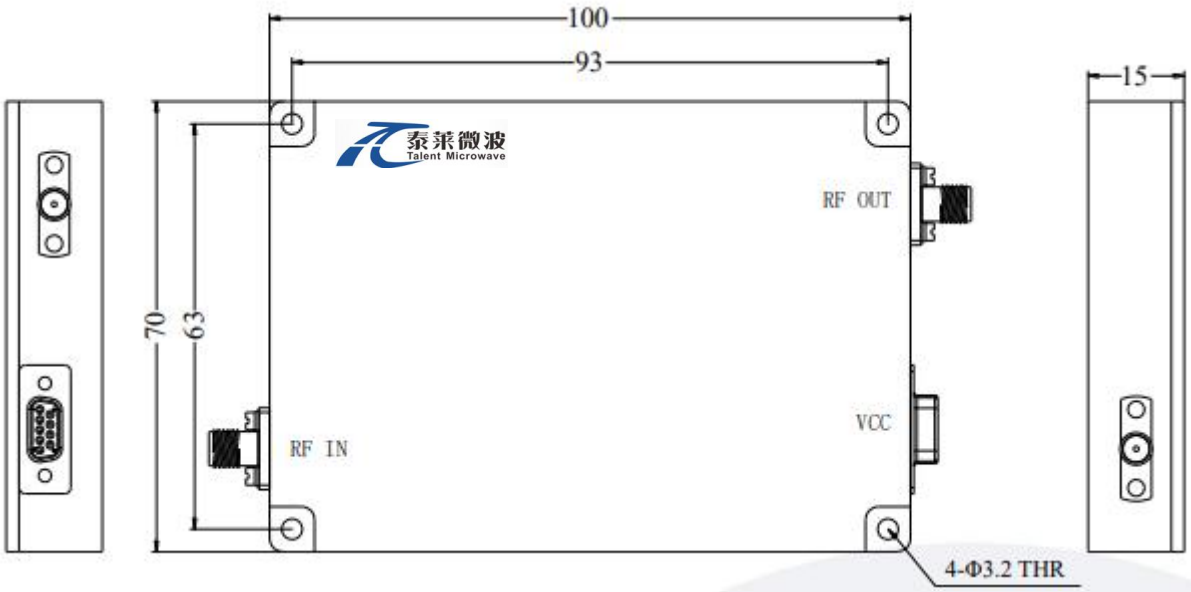
外形尺寸Outline Drawing:

Unit: mm



***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	-45		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	30000			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
TLPA2G4G-43-36	Power amplifier 2-4GHz,Gain:43dB,Psat:36dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA2G4G-43-36-HS	Power amplifier 2-4GHz,Gain:43dB,Psat:36dBm,+28V DC,With Heatsink.	Rev.1.1

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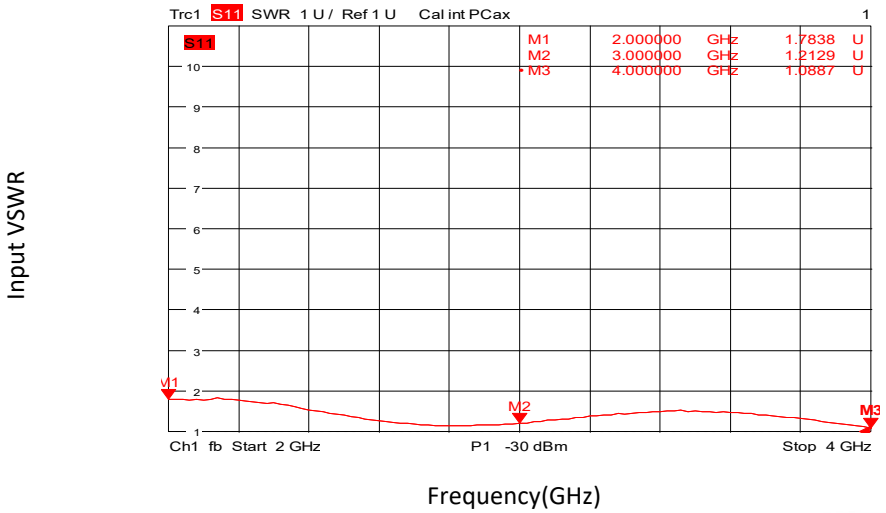
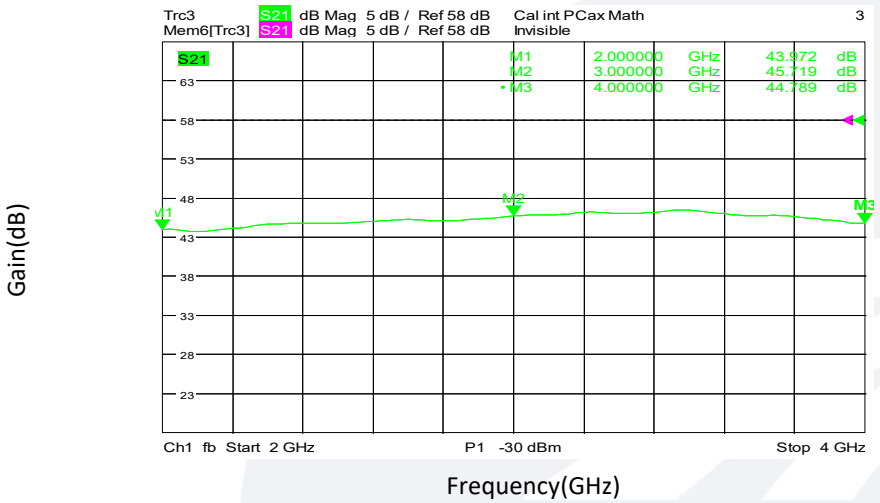
典型曲线 Typical Performance Data:

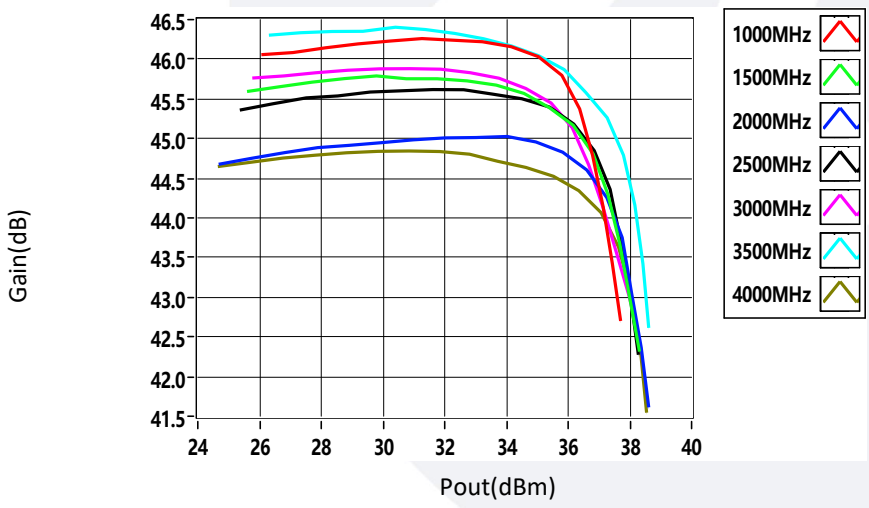
Input VSWR vs Frequency



Gain vs Frequency



Gain vs Output Power



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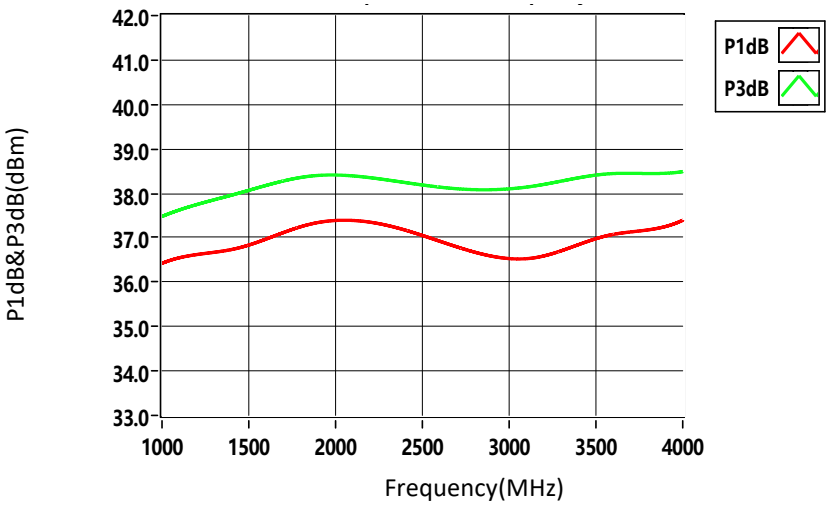
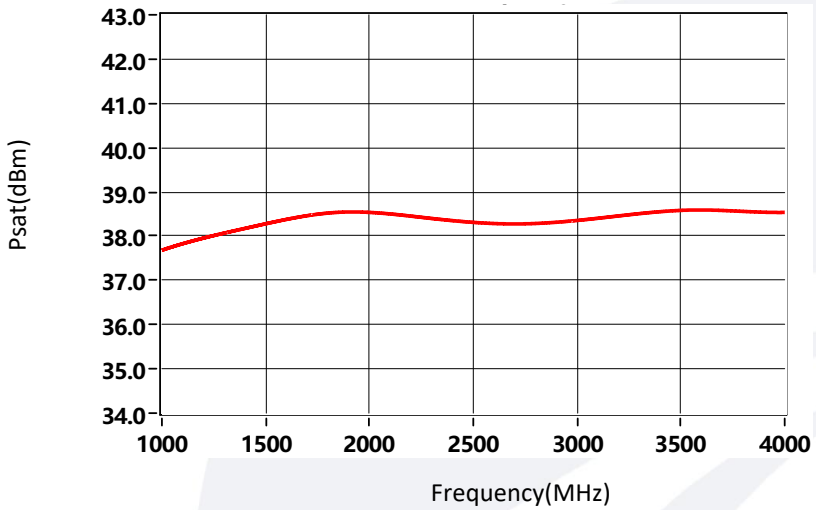
典型曲线 Typical Performance Data:

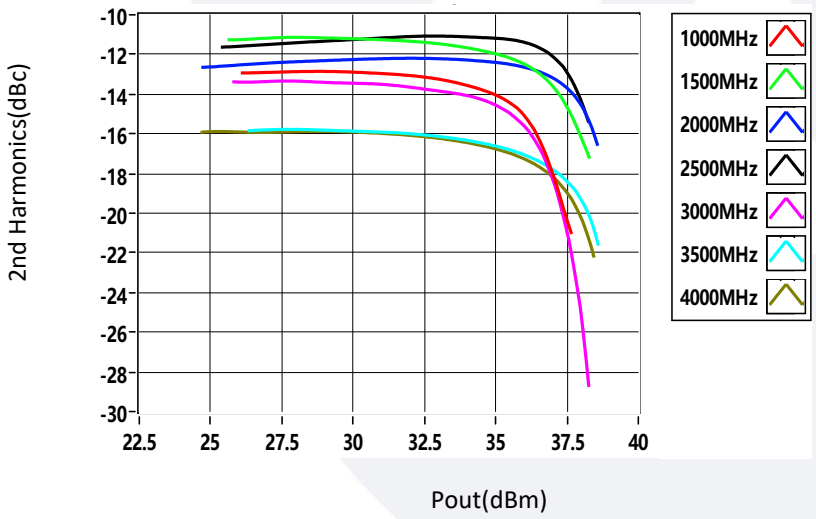
P1dB&P3dB vs Frequency



Psat VS Frequency



2nd Harmonics VS Output Power



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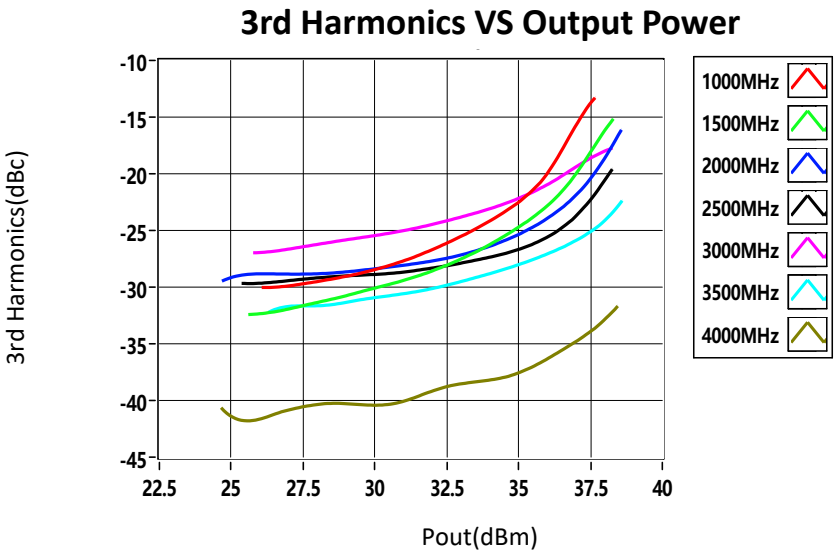
典型曲线 Typical Performance Data: