

**Model:TLPA0.5G6G-45-43**
**Power Amplifier**  
**0.5-6GHz,Gain:45dB,Psat:43dBm**
**Feature:**

- Ultra Wide Band: 0.5-6GHz
- Gain: 45 dB Typ
- Psat Output Power: 43 dBm Typ
- 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	0.5-6			GHz
增益 Gain	43	45		dB
增益平坦度 Gain Flatness		±3.5		dB
饱和输出功率 Output Psat	41	43		dBm
杂散 Supurious	50			dBc
谐波抑制 Harmonic	10			dBc
输入驻波 VSWR			2.0	:1
输入功率 Input Power		0	10	dBm
直流电压 DC Voltage	+28			V DC
电流 Current	3			A
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

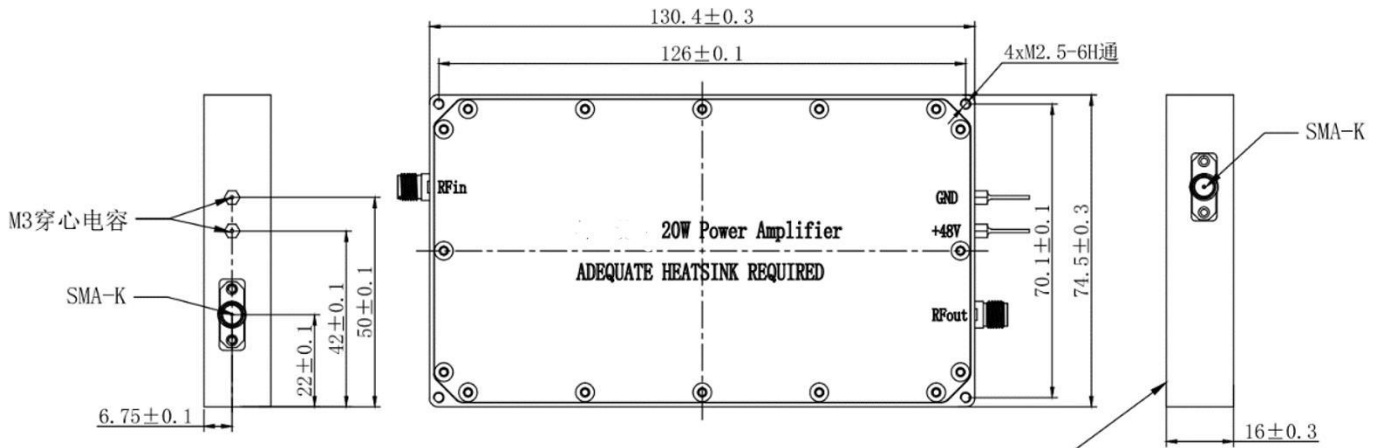
参数Parameter	指标 Value
输入输出接口 Input /Output Connector	SMA Female
直流偏置 Bias	Solder Pin
尺寸 Size	/
重量 Weight	/

**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

外形尺寸 Outline Drawing:

Unit: mm



除此面（安装面）外，其余面喷GY09冰灰色油漆



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

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

温度环境 Environmental Conditions:

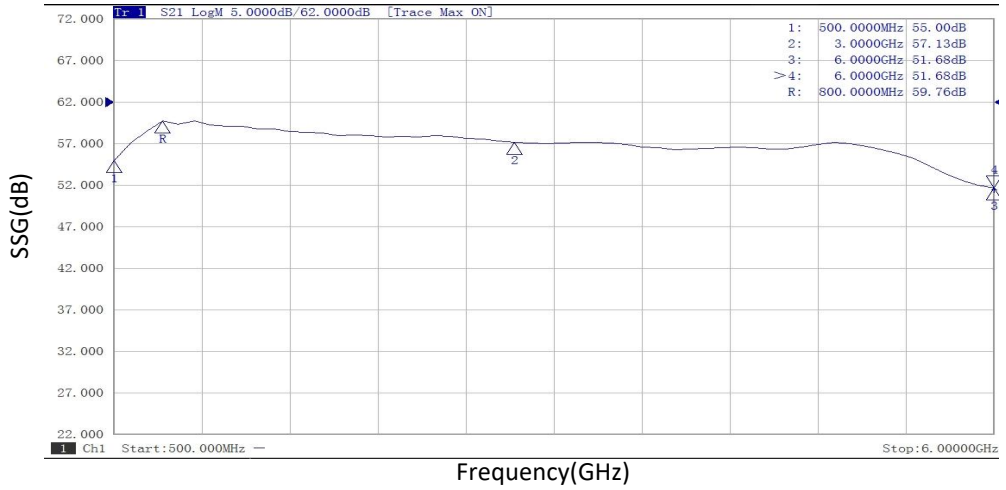
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+75	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

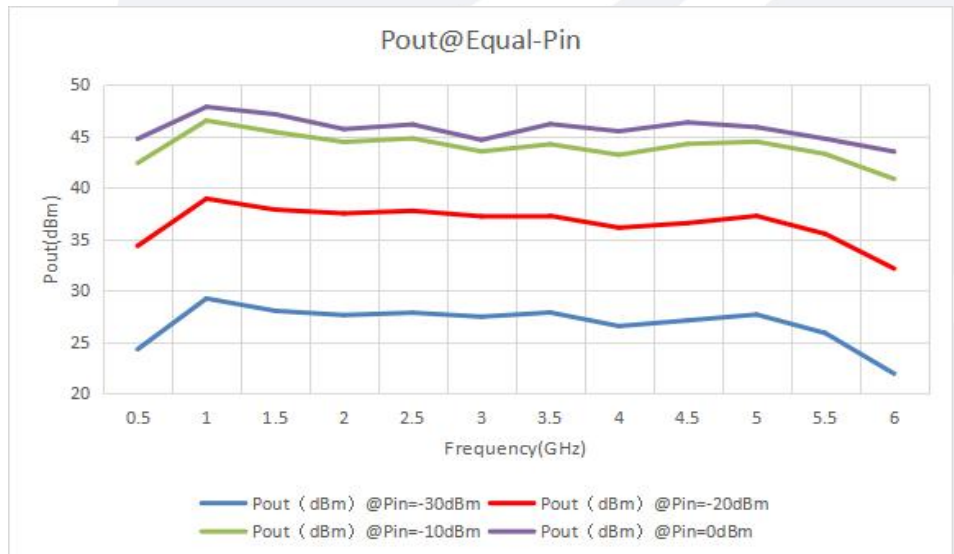
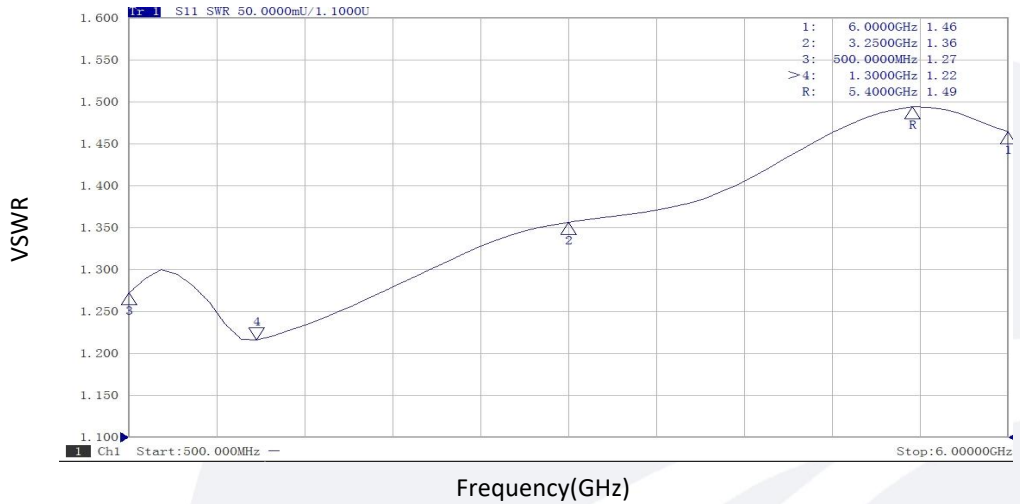
标准型号 Part Number	描述 Description	版本号Revision
TLPA0.5G6G-45-43	Power amplifier 0.5-6GHz,Gain:45dB,Psat:43dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA0.5G6G-45-43-HS	Power amplifier 0.5-6GHz,Gain:45dB,Psat:43dBm, +28V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

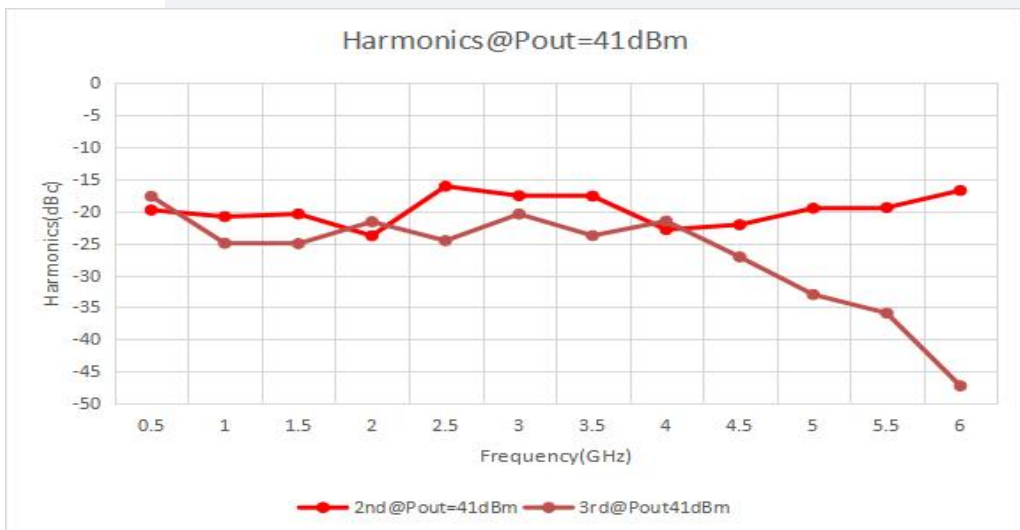
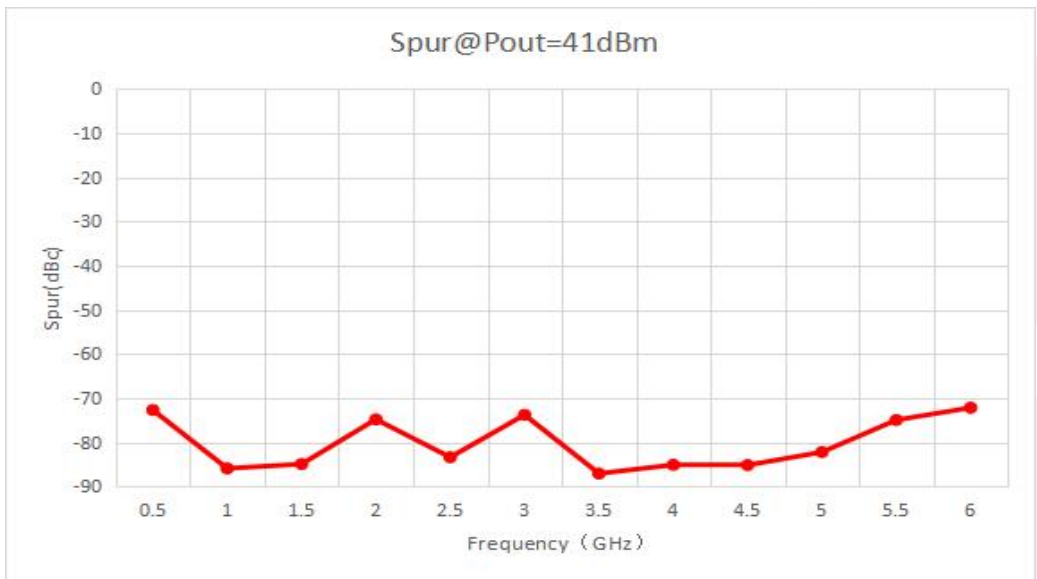
SSG vs Frequency



VSWR vs Frequency



典型曲线 Typical Performance Data:



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