

**Model:TLPA24G30G-46-46-BC**
**Solid State High Power Amplifier  
 24-30GHz,Gain:46dB,Psat:46dBm**
**Feature:**

- Ultra Wide Band: 24-30GHz
- Gain: 46dB
- Psat Output Power: 46dBm
- Built-in Control, Monitoring and Protection functions
- 50 Ohm Matched Input / Output

**电气特性 Electrical:**

参数Parameter	代码Symbol	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	BW	24-30			GHz
功率增益 Power Gain	Gp	46			dB
饱和输出功率 Output Psat	Psat	46			dBm
增益平坦度 Gain Flatness	$\Delta G$		$\pm 3.5$		dB
输入功率 Input Power	Pin		0	10	dBm
杂散 Spurious@Pout=46dBm	Spur	50			dBc
谐波 Harmonics@Pout=46dBm	2nd			20	dBc
输入驻波 Input VSWR	VSWRin			2.0	:1
交流电压 DC Voltage	Vac	220V/50Hz			V AC
阻抗 Impedance	I/O-IMP	50			Ohms

**机械特性 Mechanical :**

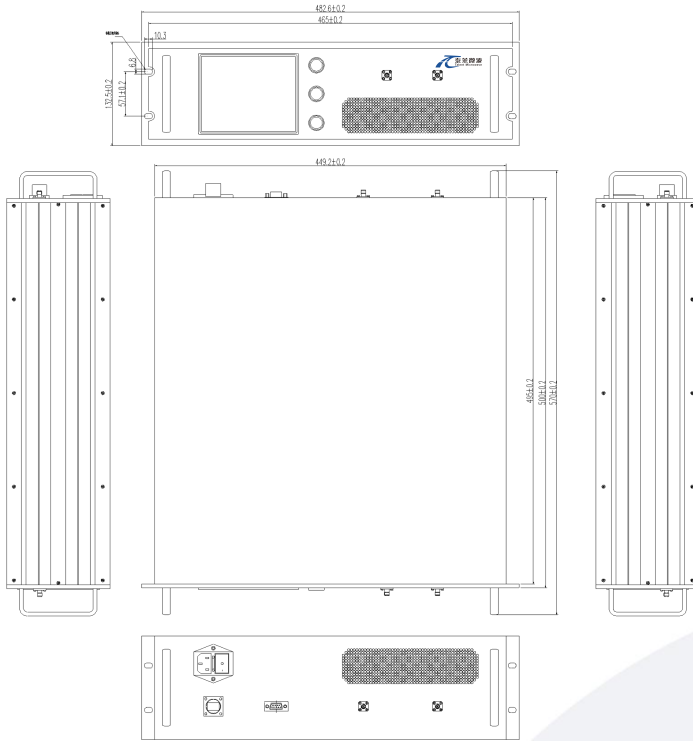
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92mm Female/WR-34	
通信接口 Communication Interfaces	RJ45/DB9	
尺寸 Size	449.2*570*132.5	mm
重量 Weight	$\leq 25$	Kg

**主要功能 Key Function:**

参数Parameter	指标 Value
内置保护 Built-in protections	ProOver TEM, over voltage, over current, input over power, output mismatch protection. 具备过温保护、输入过功率保护、过压保护、过流保护、输出失配保护;
风冷系统 Cooling system	Built-in internal forced air cooling system 内置强制风冷
内置监测 Built-in Monitor	Output Power, Temperature, Voltage, Current, 输出功率、温度、供电电压、供电电流
内置 Built-in control	关闭 Shutdown

**外形尺寸Outline Drawing:**

Unit: mm(Inches)



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

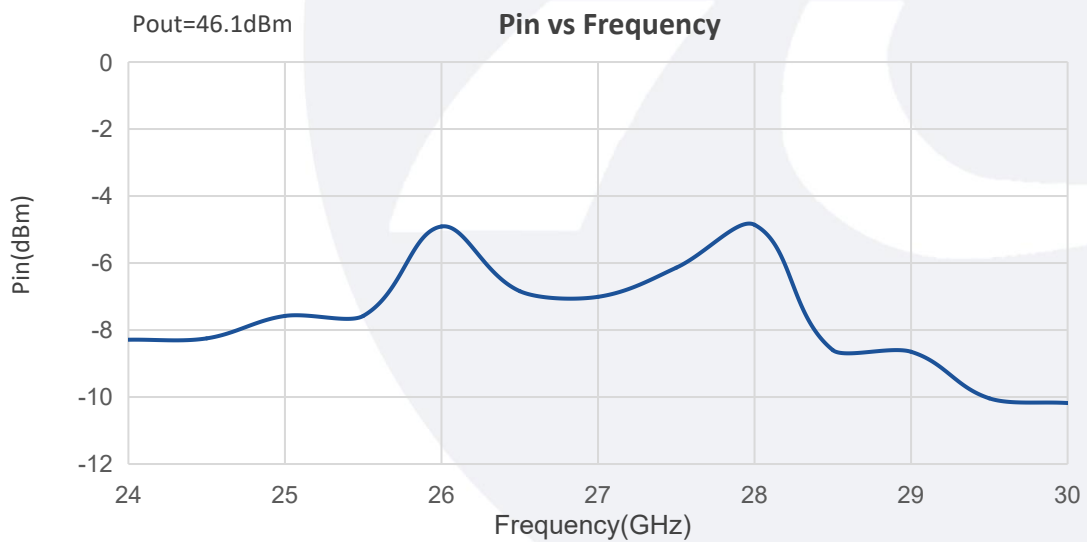
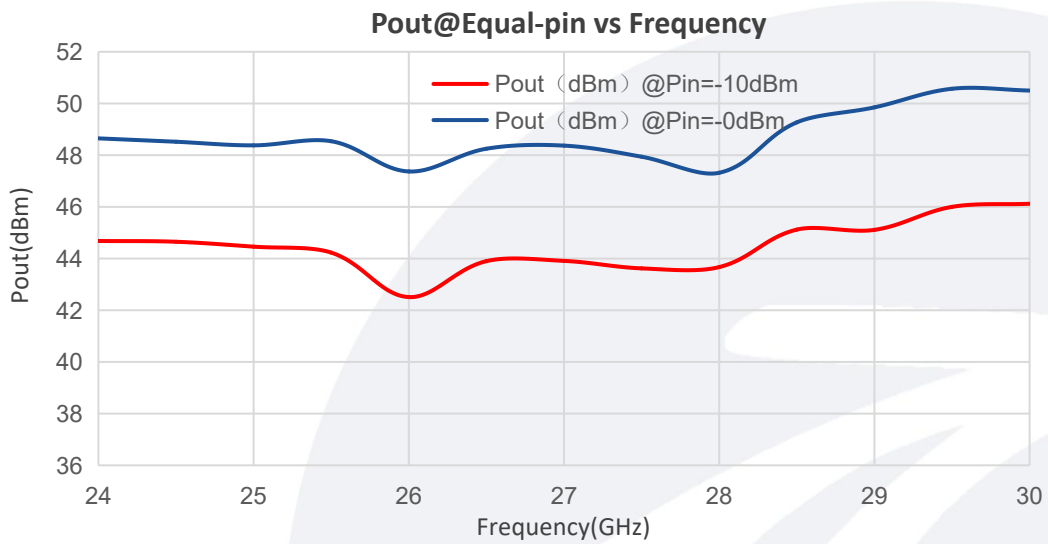
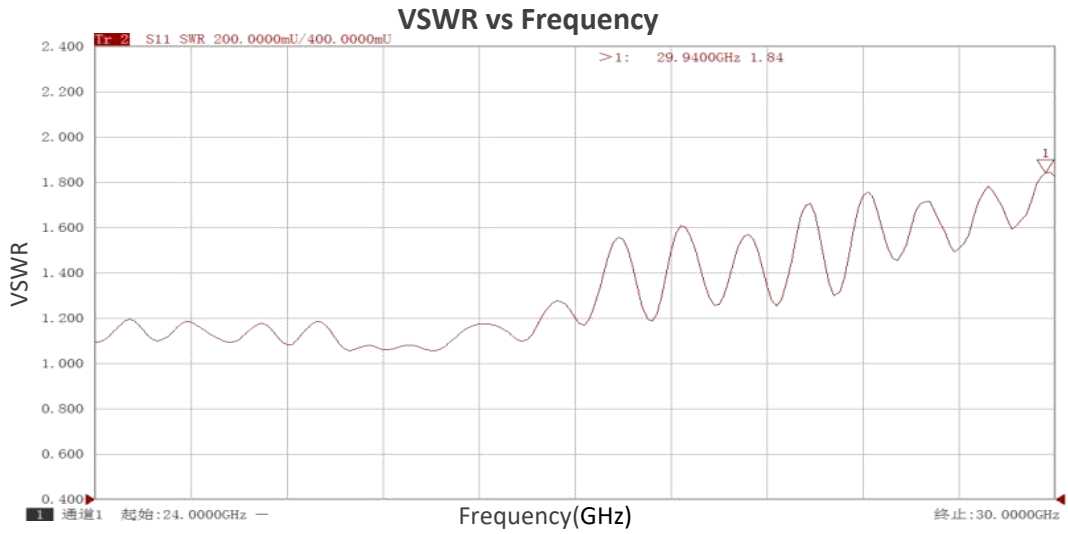
**温度环境 Environmental Conditions:**

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-20		+50	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		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:**

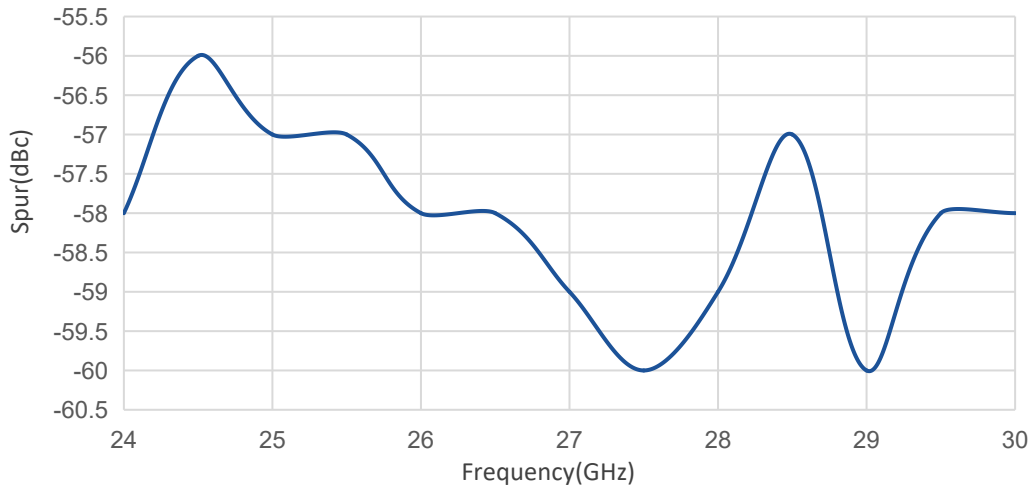
标准型号 Part Number	描述 Description	版本号Revision
TLPA24G30G-46-46-BC	Power amplifier 24-30GHz, Gain:46dB, Psat:46dBm, +220V DC, Without Heatsink Protection: Over TEM, over voltage, over current, input over power, output mismatch protection.	Rev.1.1

典型曲线 Typical Performance Data:



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Spurious vs Frequency



Small Signal Gain vs Frequency

