

Model:TLPA15G43G-35-33
Power Amplifier
15-43GHz,Gain:35dB,Psat:33dBm
Feature:

- Ultra Wide Band: 15-43GHz
- Gain:35dB Min
- Psat Output Power:33dBm Typ
- 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	15-43			GHz
增益 Gain	35			dB
增益平坦度 Gain Flatness		±2		dB
线性输出功率 Output P1dB	30			dBm
饱和输出功率 Output Psat		33		dBm
杂散 Spurious@Pout=30dBm			-50	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		+24		V DC
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	2.92 Female/2.92 Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	150*90*20	mm
重量 Weight	500	g

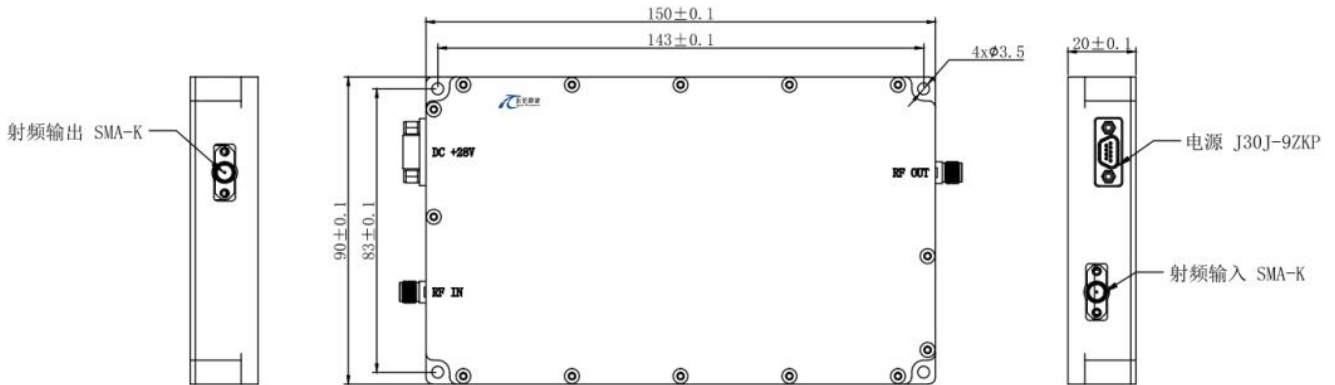
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	1-5:+24V 6-9:GND
输入功率 RF Input Power	0dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
Benchtop Amplifier**

外形尺寸 Outline Drawing:

Unit: mm



J30J-9ZKP引脚定义

引脚 Pin	功能 Function
1-5	+24V
6-9	GND

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



温度环境 Environmental Conditions:

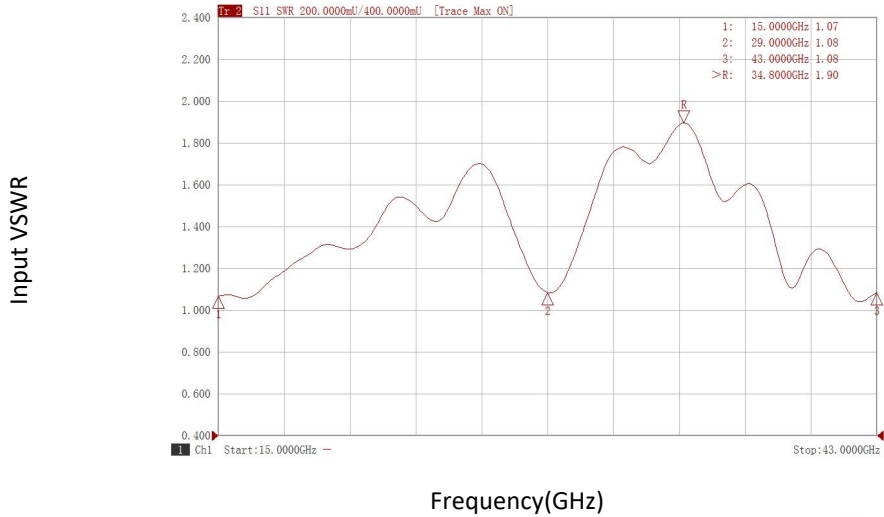
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-25		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	100%RH at 35°C, 95%RH at 40°C			%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

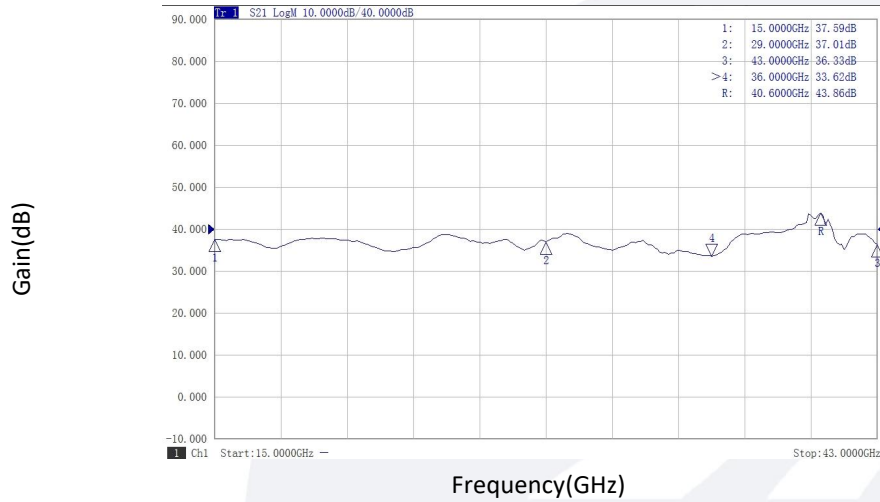
标准型号 Part Number	描述 Description	版本号Revision
TLPA15G43G-35-33	Power amplifier 15-43GHz, Gain:35dB, Psat:33dBm, +24V DC, Without Heatsink.	Rev.1.1
TLPA15G43G-35-33-HS	Power amplifier 15-43GHz, Gain:35dB, Psat:33dBm, +24V DC, With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

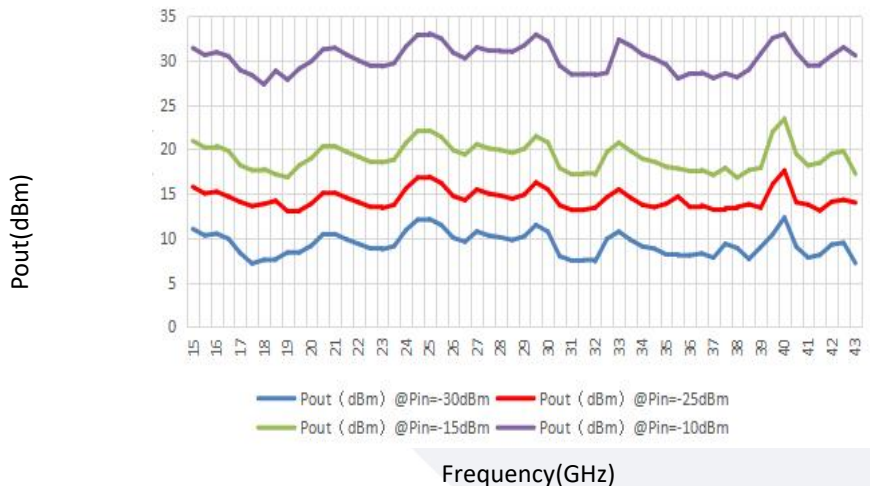
Input VSWR vs Frequency



Gain vs Frequency

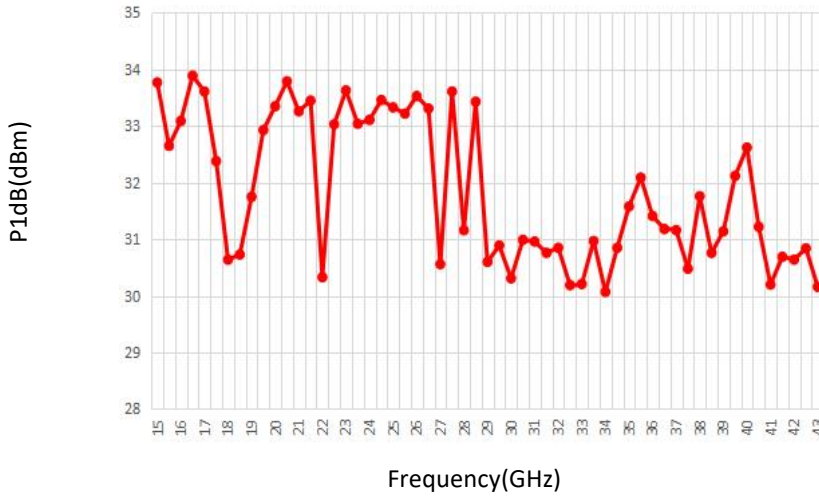


Pout@Equal_Pin

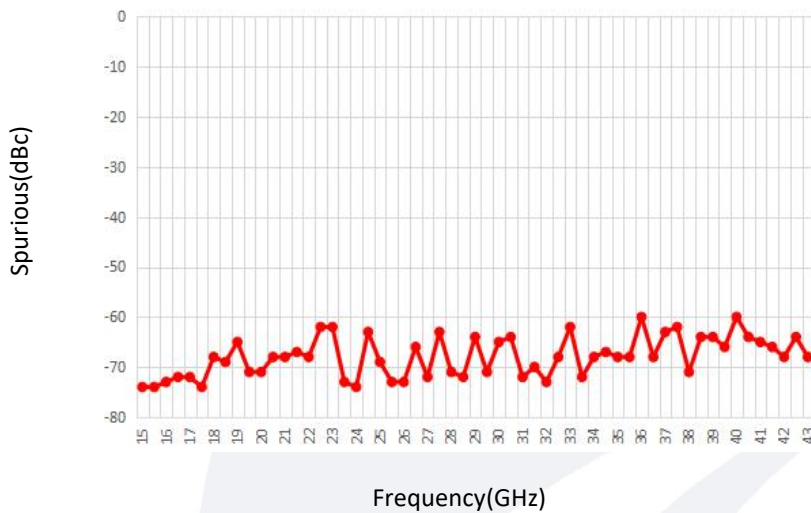


典型曲线 Typical Performance Data:

P1dB vs Frequency



Spurious@Pout=30dBm



Pout@Pin

