

Model:TLPA40G67G-39-34
Power Amplifier
40-67GHz,Gain:39dB,Psat:34dBm
Feature:

- Ultra Wide Band: 40-67GHz
- Gain: 39 dB
- Psat Output Power: 34 dBm
- 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	40-67			GHz
增益 Gain	35 33	40-60GHz:39 60-67GHz:35		dB
线性输出功率 Output P1dB		29		dBm
饱和输出功率(40-60GHz) Output Psat(40-60GHz)	32	34		dBm
IDD Psat		2.5	3.0	A
输入回拨损耗 Input Return Loss		-3		dB
输出回拨损耗 Output Return Loss		-8		dB
直流电压 DC Voltage		20		V DC
电流 Current		2.05		A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

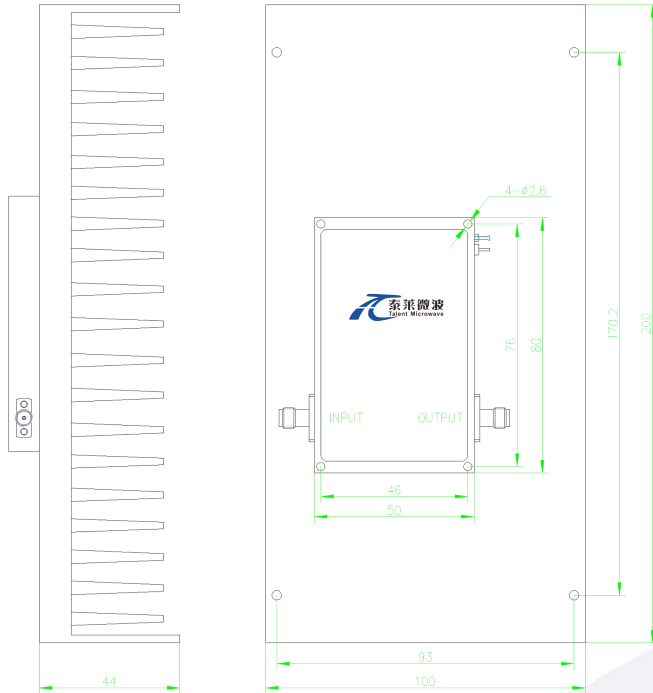
参数Parameter	指标 Value
输入输出接口Input /Output Connector	1.85mm Female
直流偏置 Bias	Solder Pin
尺寸 Size	/
重量 Weight	230g(不含散热器)

绝对最大值 Absolute Maximum Ratings:

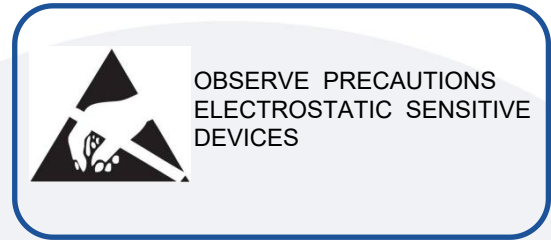
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	24 V
输入功率 RF INPUT POWER	+15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸Outline Drawing:

Unit: mm



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



温度环境 Environmental Conditions:

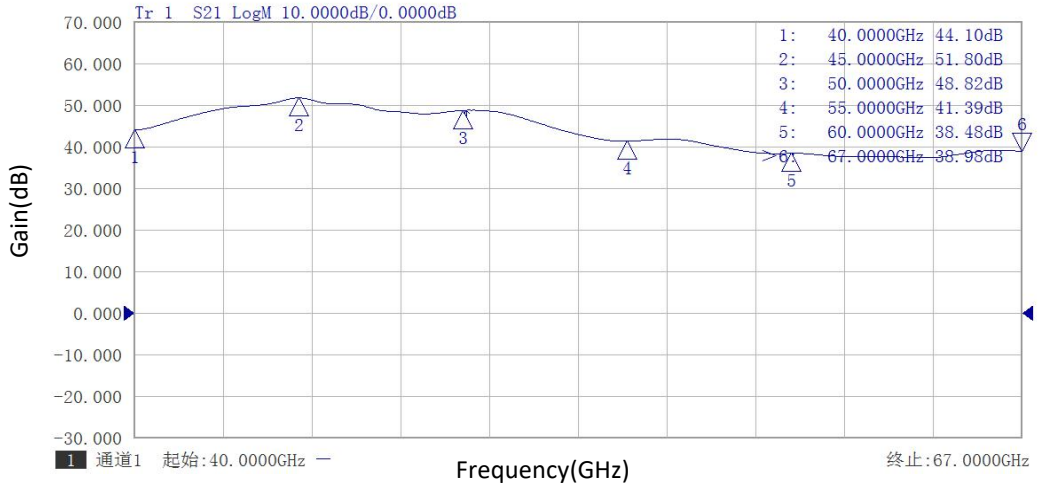
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+85	°C
存储温度 Non-operating Temperature	-50		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

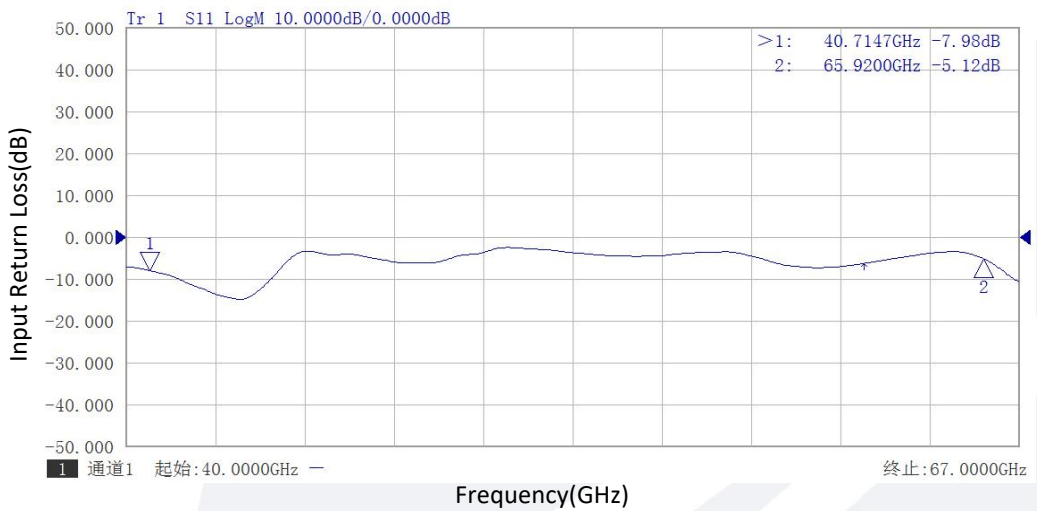
标准型号 Part Number	描述 Description	版本号Revision
TLPA40G67G-39-34	Power amplifier 40-67GHz, Gain:39dB, Psat:34dBm, +24V DC, Without Heatsink	Rev.1.1
TLPA40G67G-39-34-HS	Power amplifier 40-67GHz, Gain:39dB, Psat:34dBm, +24V DC, With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

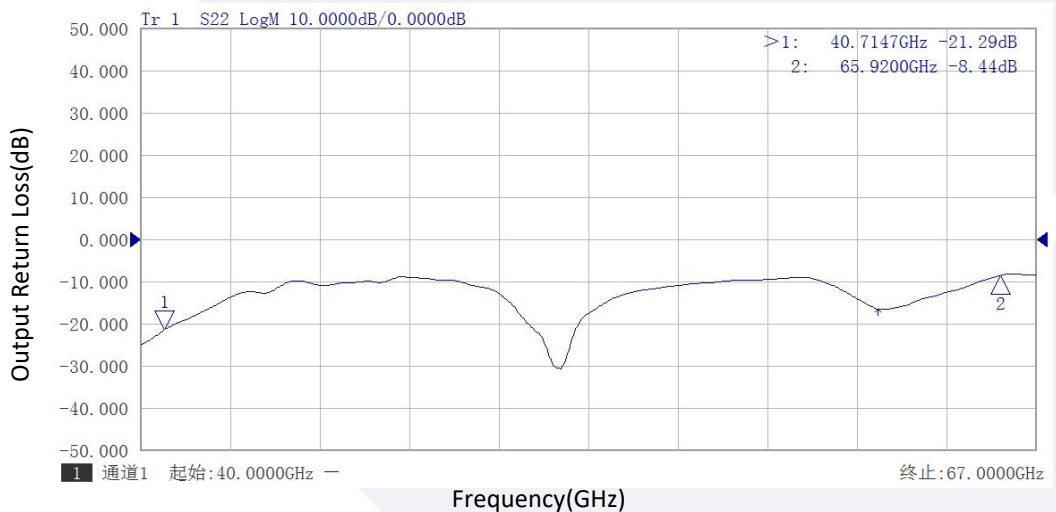
Gain vs Frequency



Input Return Loss vs Frequency

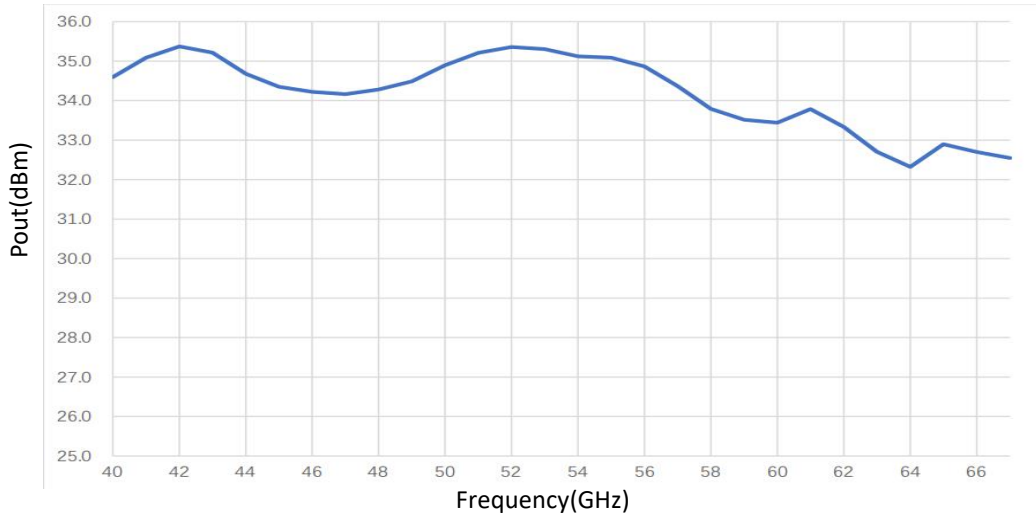


Output Return Loss vs Frequency



典型曲线 Typical Performance Data:

Pout vs Frequency



IDD Psat vs Frequency

