

**Model:TLPA8G12G-36-40**
**Power amplifier**
**8-12GHz, Gain:36dB, P1dB:38dBm, Psat:40dBm**
**Feature:**

- Ultra Wide Band: 8-12GHz
- Gain: 36dB Min
- Psat Output Power: 40dBm Min
- 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	8-12			GHz
增益 Gain	36	40		dB
增益平坦度 Gain Flatness		±1.0	±2.0	dB
线性输出功率P1dB		38		dB
饱和输出功率 Psat	40	41		dBm
谐波抑制 Harmonic Rejection		15		dB
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		28		V DC
直流电流 DC Supply Current	2.5			A
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

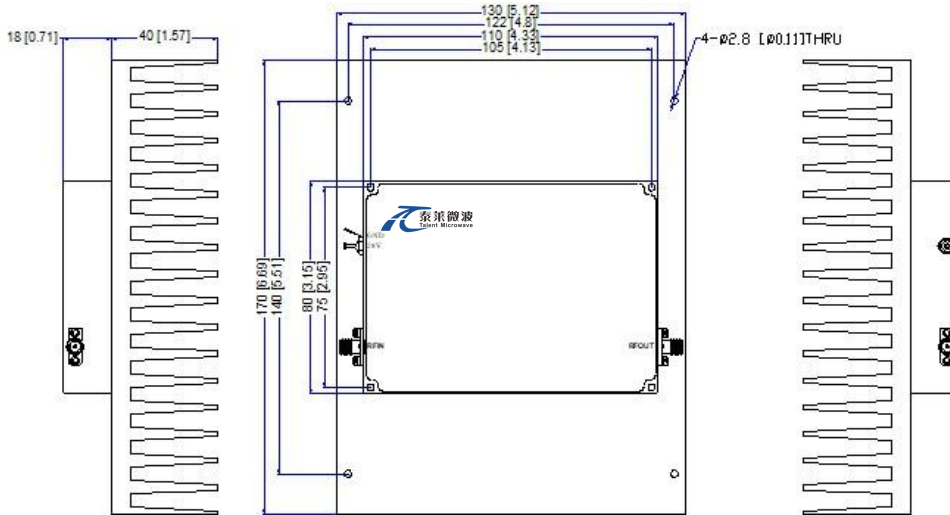
参数Parameter	指标 Value	单位Units
输入输出接Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	110*80*18	mm
重量 Weight	/	g


**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	/
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm(inches)



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



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

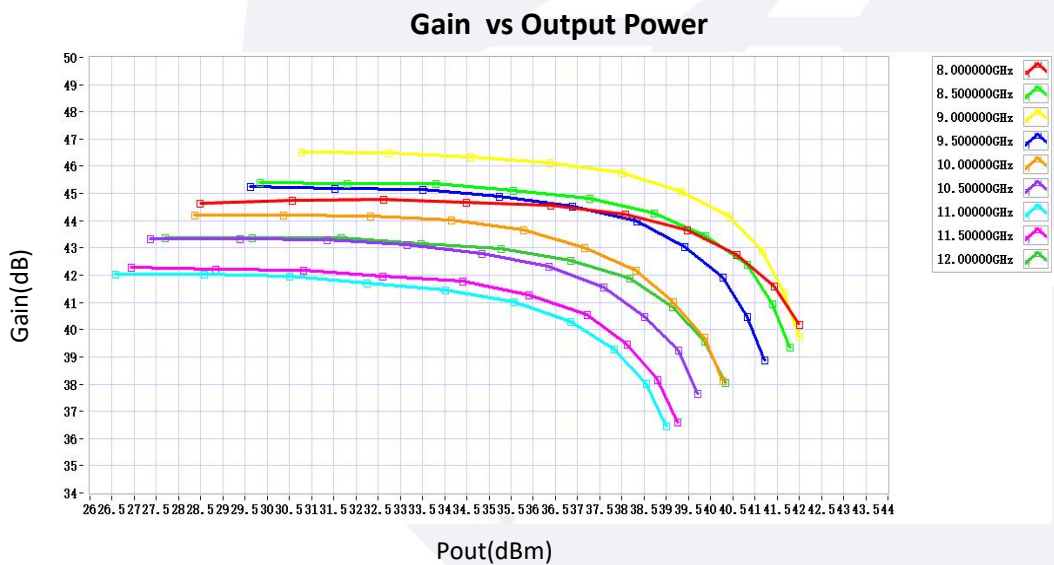
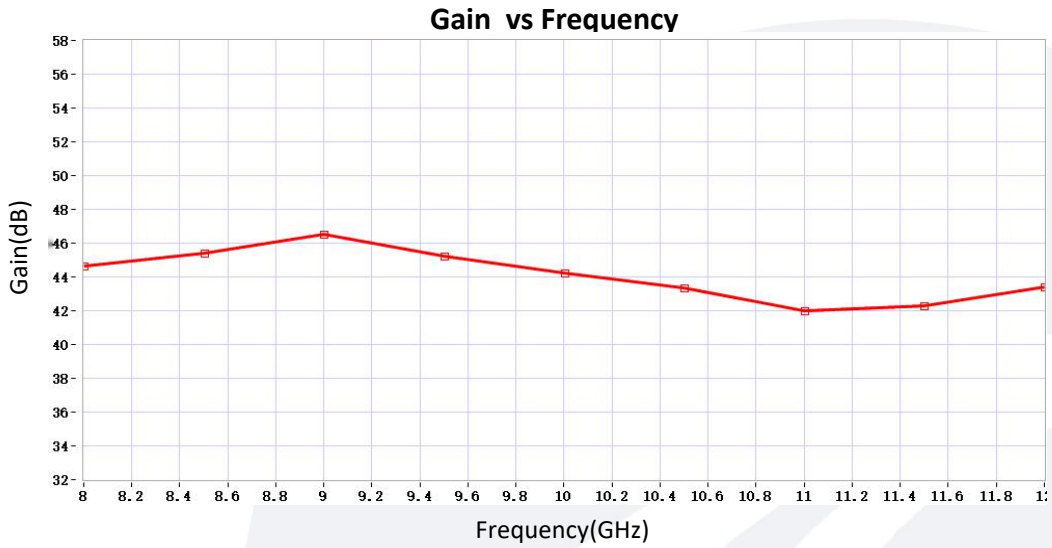
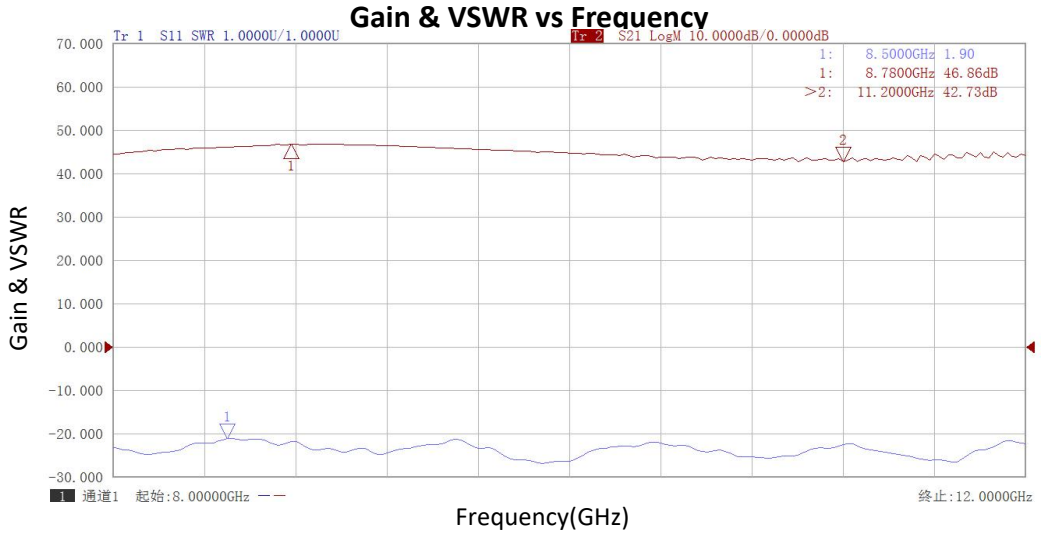
温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°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)		25g 11ms,saw-tooth		
冲击 Shock(non operating)		20G for 11msc half sin wave,3 axis both directions		

订货信息 Ordering Information:

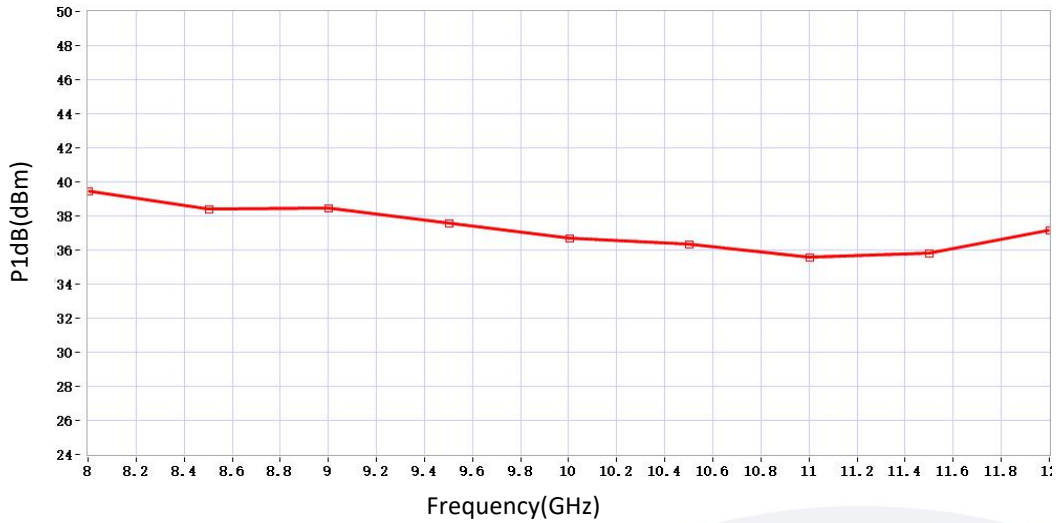
标准型号 Part Number	描述 Description	版本号Revision
TLPA8G12G-36-40	Power amplifier 8-12GHz,Gain:36dB,P1dB:38dBm,28V DC,Without Heatsink	Rev.1.0
TLPA8G12G-36-40-HS	Power amplifier 8-12GHz,Gain:36dB,P1dB:38dBm,28V DC,With Heatsink	Rev.1.0

典型曲线 Typical Performance Data:



典型曲线 Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

