

**Model:TLPA18G40G-38-27**

**Power Amplifier**  
**18-40GHz,Gain:38dB Min**

**Feature:**

- Ultra Wide Band: 18-40GHz
- Gain: 38dB Min
- Psat Output Power: 27 dBm 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	18-40			GHz
增益 Gain	38	43		dB
增益平坦度 Gain Flatness		±2.5		dB
输入功率P1dB		27		dBm
饱和输出功率 Psat	27	28		dBm
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		:1
直流电压 DC Voltage		12		V DC
直流电流 DC Supply Current	1.2			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	2.92mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	60*50*12	mm
重量 Weight	/	g

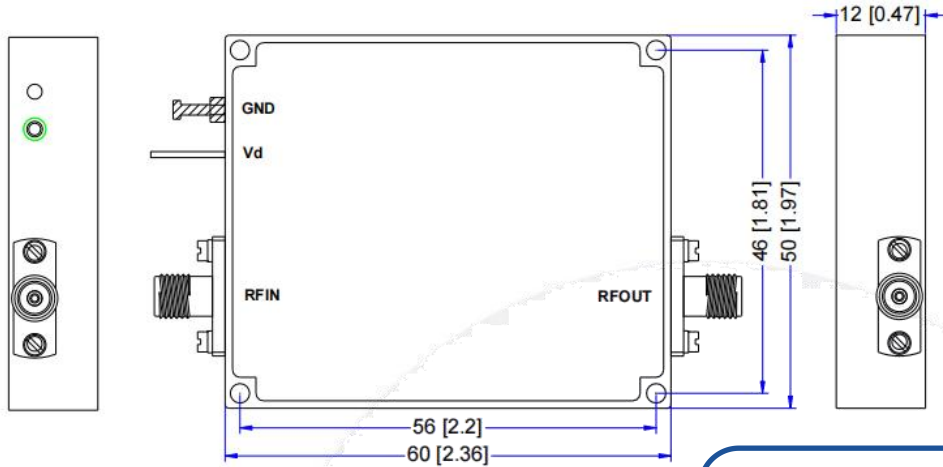


**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF INPUT POWER	0 dBm
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	-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:

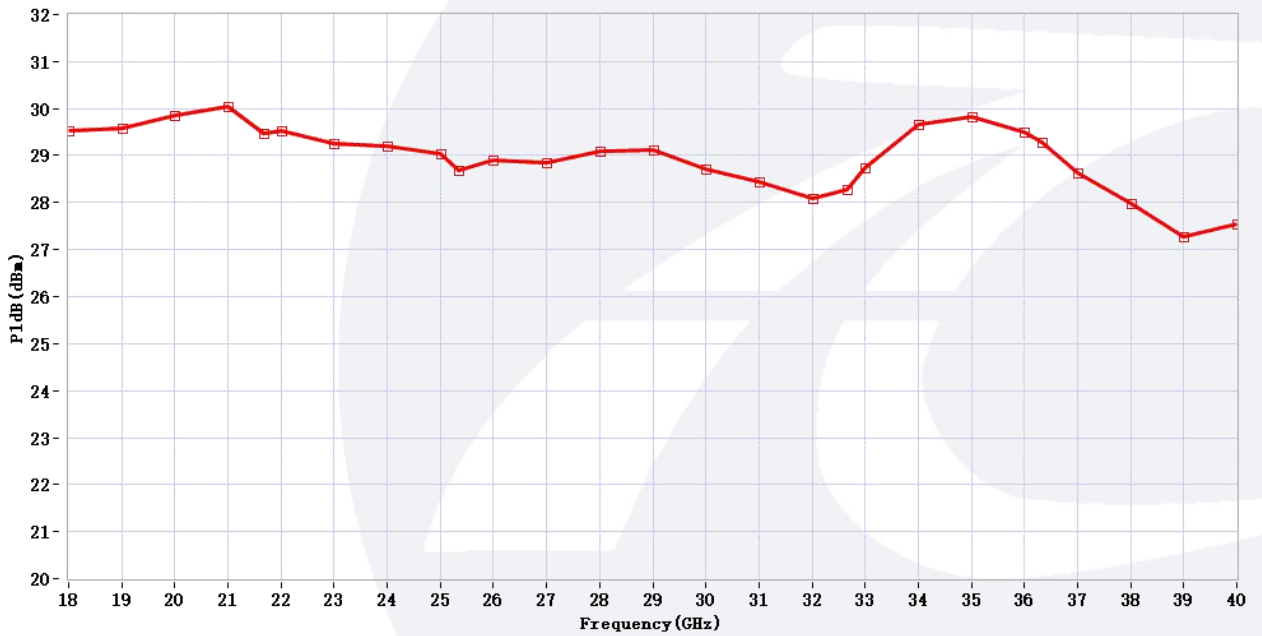
标准型号 Part Number	描述 Description	版本号Revision
TLPA18G40G-38-27	Power amplifier 18-40GHz,Gain:38dB,12V DC,2.92mm Female	Rev.1.1

典型曲线 Typical Performance Data:

Gain&VSWR VS Frequency



P1dB vs. Frequency



典型曲线 Typical Performance Data:

