

Model:TLPA18G40G-45-40-HS

Power Amplifier

18-40GHz, Gain:45dB, Psat:40dBm, 28V DC

Feature:

- Ultra Wide Band: 18-40GHz
- Gain: 45dB Typ
- Psat Output Power: 40 dBm Typ
- 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
小信号增益 small signal Gain	40	45		dB
增益平坦度 Gain Flatness		±4	±5	dB
饱和输出功率 Psat	37	40		dBm
输入驻波 Input VSWR		2.0		:1
杂散 Spurious		-60		dBc
最大输入功率 Input Max Power			0	dBm
直流电压 DC Voltage		18		V DC
直流电流 DC Supply Current	5			A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	132*165*49.5	mm
重量 Weight	/	g

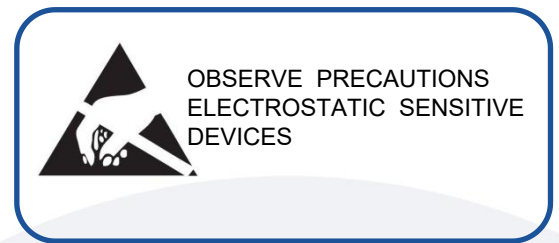
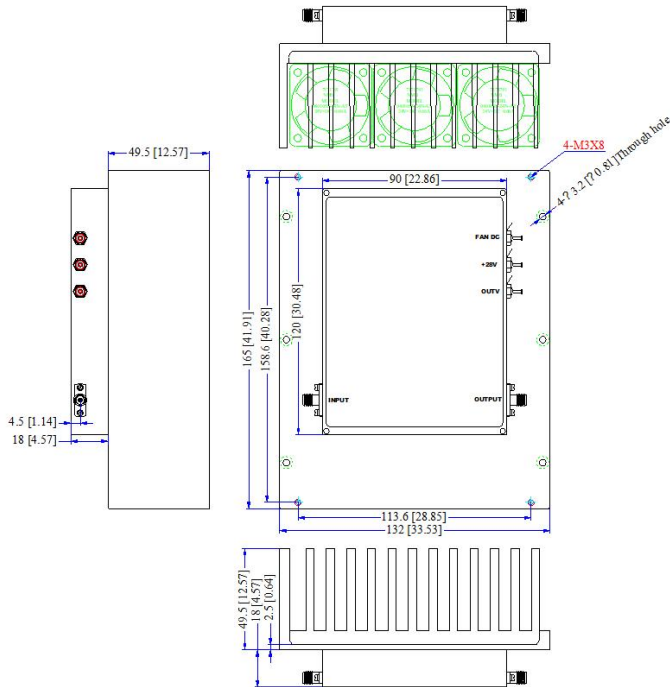


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+20 V
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**

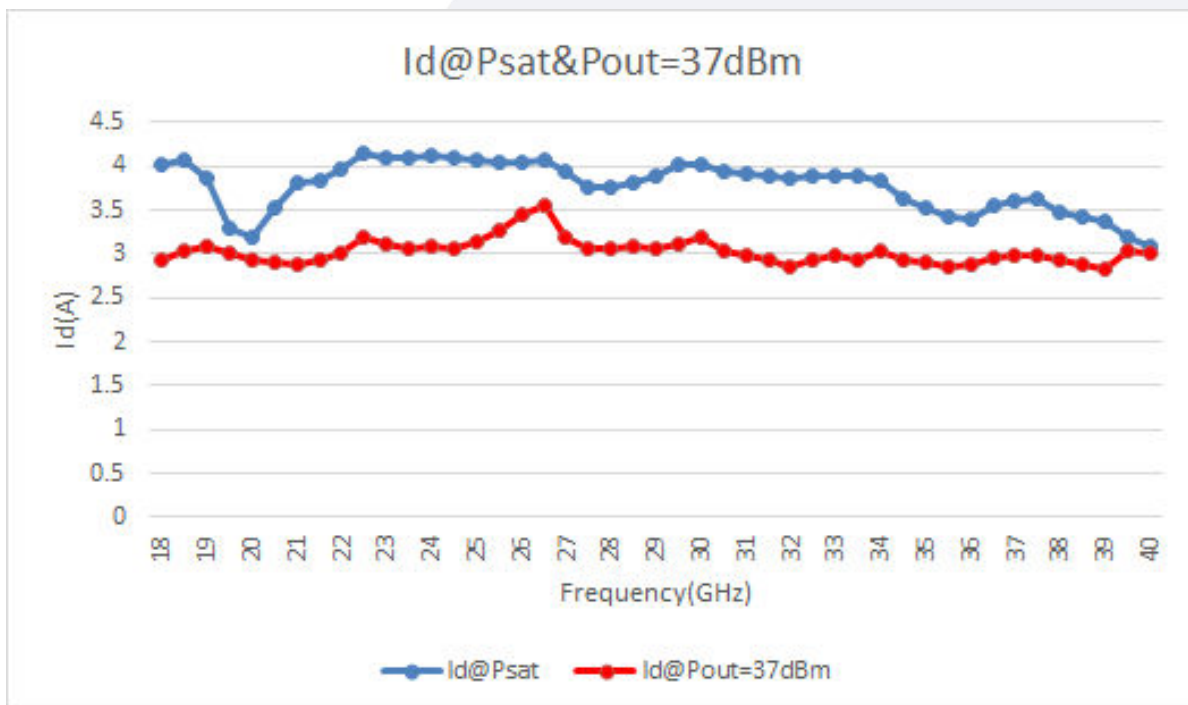
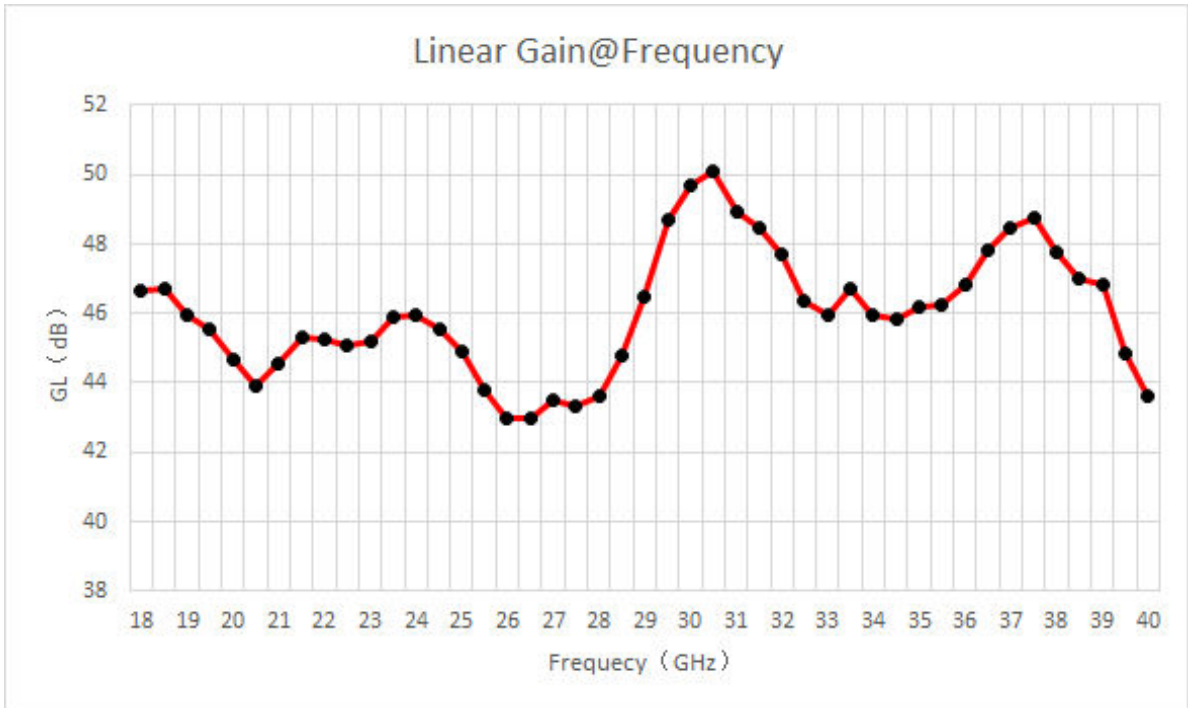
温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+50	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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			

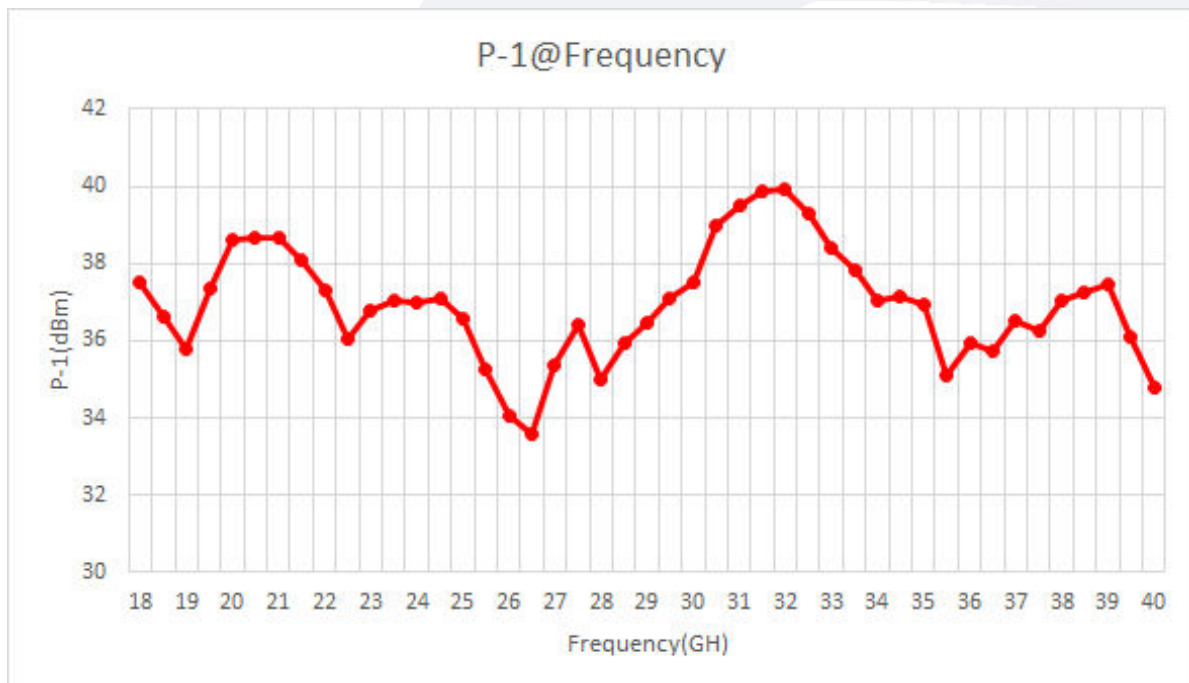
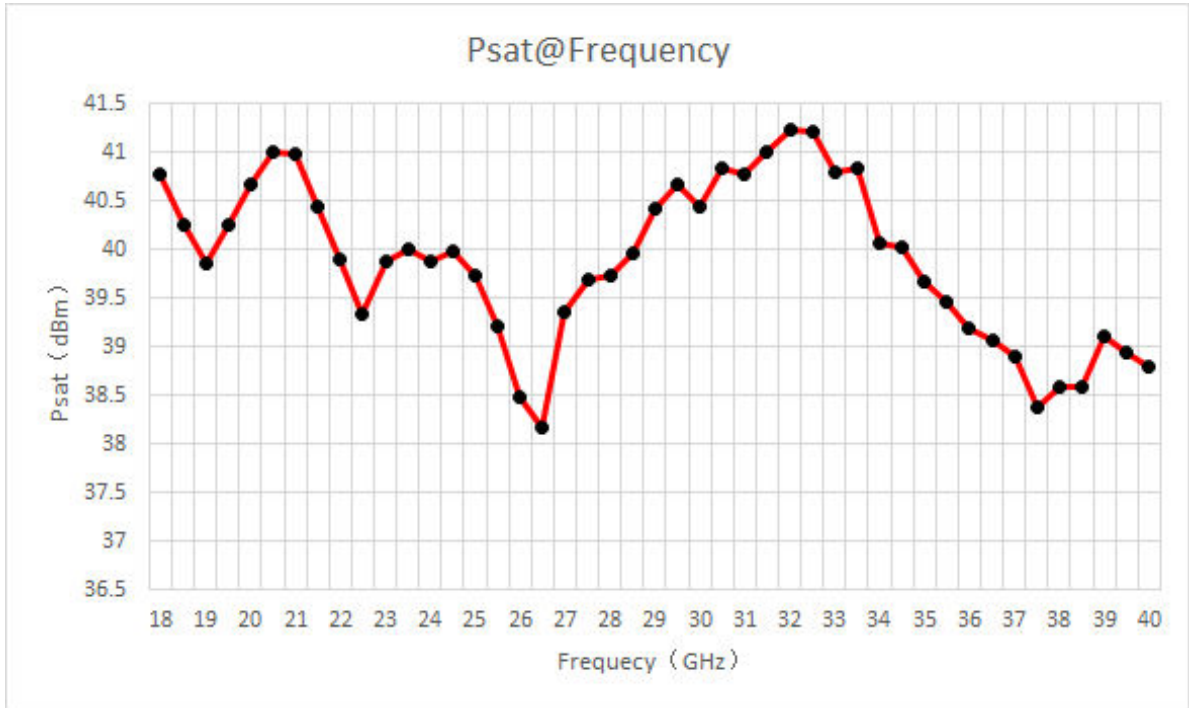
订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号Revision
TLPA18G40G-45-40	Power Amplifier 18-40GHz,Gain:45dB,Psat:40dBm,28V DC , Without Heatsink	Rev 2.1
TLPA18G40G-45-40-HS	Power Amplifier 18-40GHz,Gain:45dB,Psat:40dBm,28V DC With Heatsink	Rev 2.1

典型曲线 Typical Performance Data:



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