

Model: TLPA12.5G18G-47-40
Power Amplifier
12.5-18GHz, Gain: 47dB, P1dB: 37dBm
Feature:

- Ultra Wide Band: 12.5-18GHz
- Gain: 47dB Min
- Output Power: 40 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	12.5-18			GHz
增益 Gain	47			dB
增益平坦度 Gain Flatness		±2.0		dB
线性输出功率 Output P1dB		37		dBm
饱和输出功率 Output Psat	40			dBm
输入驻波 Input VSWR		2.0		:1
最大输入功率 Input Max Power			5	dBm
直流电压 DC Voltage		28		V DC
直流电流 DC Supply Current		5		A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

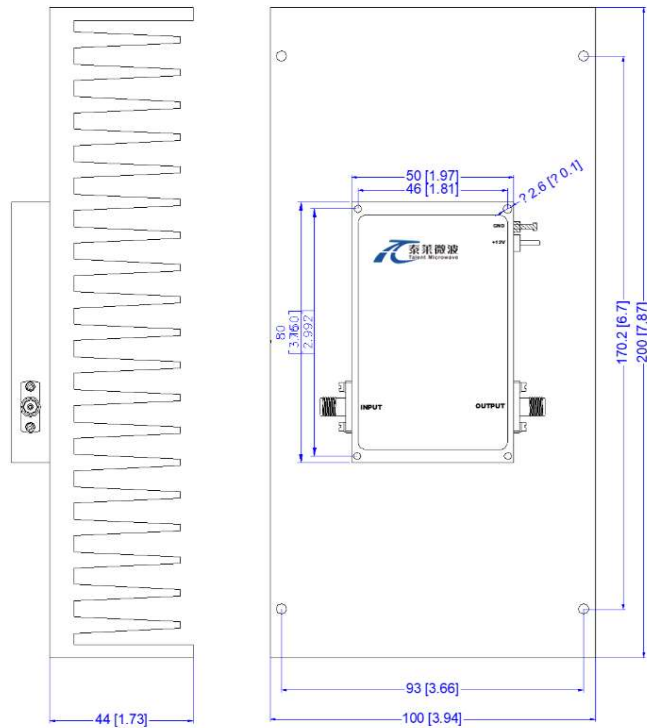
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	/	mm
重量 Weight	1000	g


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	
输入功率 RF INPUT POWER	5 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	-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)	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
TLPA12.5G18G-47-40	Power amplifier 12.5-18GHz,Gain:47dB,P1dB:37dBm,28V DC, Without Heatsink	Rev.1.1
TLPA12.5G18G-47-40-HS	Power amplifier 12.5-18GHz,Gain:47dB,P1dB:37dBm,12V DC, With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

Gain&VSWR VS. Frequency

