

Model: TLPA0.5G6G-45-46
Power Amplifier
0.5-6GHz, Gain: 47dB, P1dB: 44dBm
Feature:

- Ultra Wide Band: 0.5-6GHz
- Gain: 45dB Min
- Output Power: 46 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	0.5-6			GHz
增益 Gain	45	47		dB
增益平坦度 Gain Flatness		±4.0		dB
线性输出功率 Output P1dB	43	44		dBm
饱和输出功率 Output Psat		46		dBm
输入驻波 Input VSWR		1.5	2.5	:1
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 :

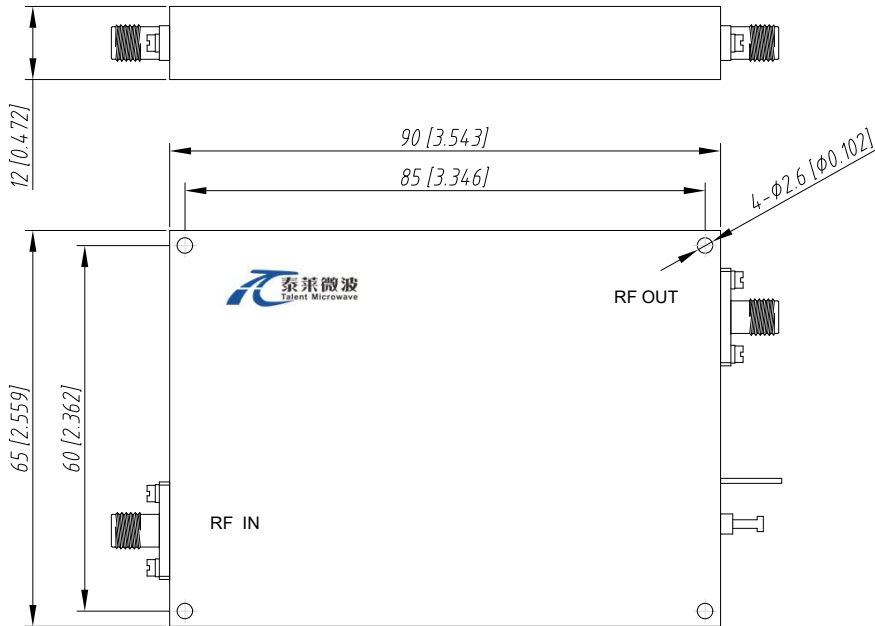
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	90*65*12	mm
重量 Weight	/	g


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	
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	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
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
TLPA0.5G6G-45-46	Power amplifier 0.5-6GHz,Gain:47dB,P1dB:44dBm,28V DC, Without Heatsink	Rev.1.0
TLPA0.5G6G-45-46-HS	Power amplifier 0.5-6GHz,Gain:47dB,P1dB:44dBm,28V DC, With Heatsink	Rev.1.0