

Model: TLPA0.7G6G-40-41
Power Amplifier
0.7-6GHz, Gain: 43dB, P1dB: 40.5dBm
Feature:

- Ultra Wide Band: 0.7-6GHz
- Gain: 40dB Min
- Psat Output Power: 41 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	0.7-6			GHz
增益 Small signal Gain	40	43		dB
增益平坦度 Gain Flatness		±3.0	±3.5	dB
线性输出功率 P1dB	40	40.5		dBm
饱和输出功率 Psat		41		dBm
输入驻波 Input VSWR		1.5	2.5	:1
谐波抑制 Harmonic Rejection	13	15		dB
最大输入功率 Input Max Power			8	dBm
直流电压 DC Voltage		28		V DC
直流电流 DC Supply Current		1.5		A
阻抗 Impedance		50		Ohms

机械特性 Mechanical:

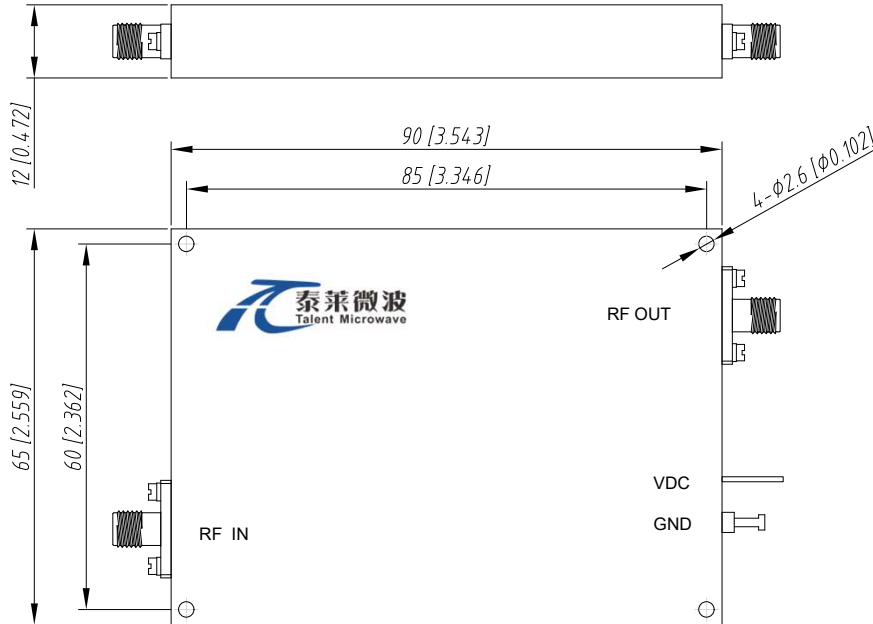
参数Parameter	指标 Value	单位Units
输入输出接口 Input / Output Connector	SMAMm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	90*65*12	mm
重量 Weight	/	g


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
TLPA0.7G6G-40-41	Power amplifier 0.7-6GHz, Gain:43dB, P1dB:40.5dBm, 28V DC, Without Heatsink	Rev.1.0
TLPA0.7G6G-40-41-HS	Power amplifier 0.7-6GHz, Gain:43dB, P1dB:40.5dBm, 28V DC, With Heatsink	Rev.1.0