

Model: TLPA1800M4G-45-42
Power Amplifier
1.8-4GHz, Gain: 45dB, Psat: 42dBm
Feature:

- Ultra Wide Band: 1.8-4GHz
- Gain: 45 dB Min
- Psat Output Power: 42dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	1.8-4			GHz
增益 Gain	45	47		dB
增益平坦度 Gain Flatness		±2	±3	dB
线性输出功率 Output P1dB	37	38		dBm
饱和输出功率 Output Psat	41	42		dBm
谐波 Harmonics			-10	dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage	+26	+28	+30	V DC
直流电流 DC Supply Current		0.5	2.5	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

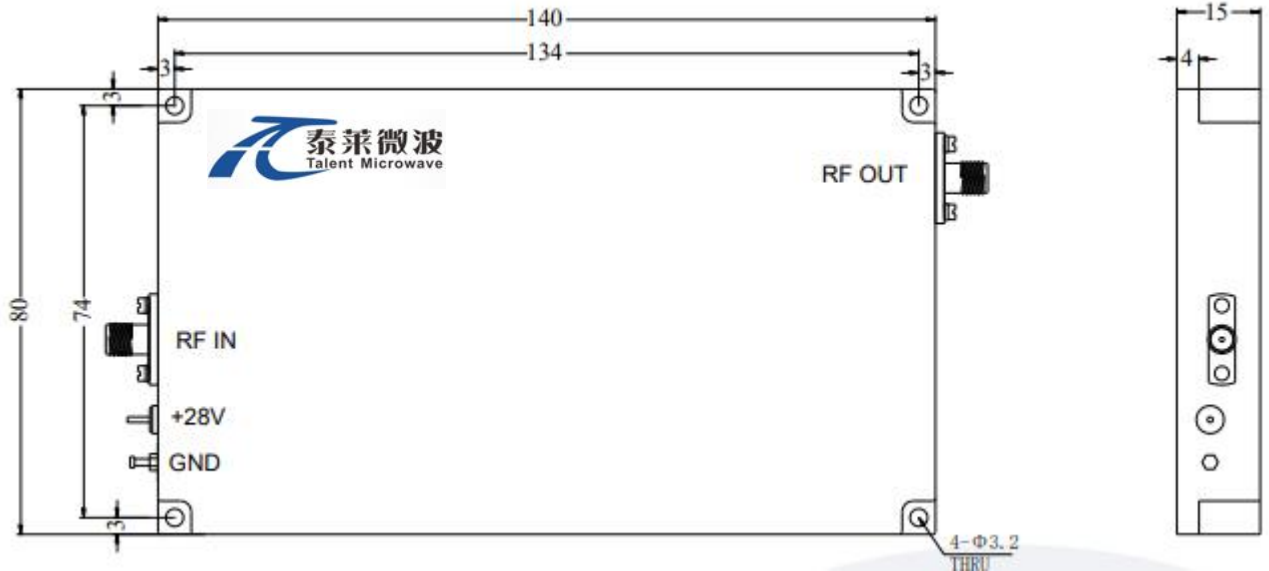
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	140*80*15	mm
重量 Weight	250	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+30V
输入功率 RF Input Power	3dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



*****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	-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
TLPA1800M4G-45-42	Power amplifier 1.8-4GHz,Gain:45dB,Psat:42dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA1800M4G-45-42-HS	Power amplifier 1.8-4GHz,Gain:45dB,Psat:42dBm, +28V DC,With Heatsink	Rev.1.1