

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

- Wide Band: 1.8GHz-4GHz
- Gain: 45dB Min
- Psat Output Power: 42 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	1.8-4			GHz
增益 Gain	45	47		dB
增益平坦度 Gain Flatness		±2dB	±3dB	dB
线性输出功率P1dB	37	38		dBm
饱和输出功率Psat	41	42		dBm
谐波抑制@Pout=41dBm			-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 :**

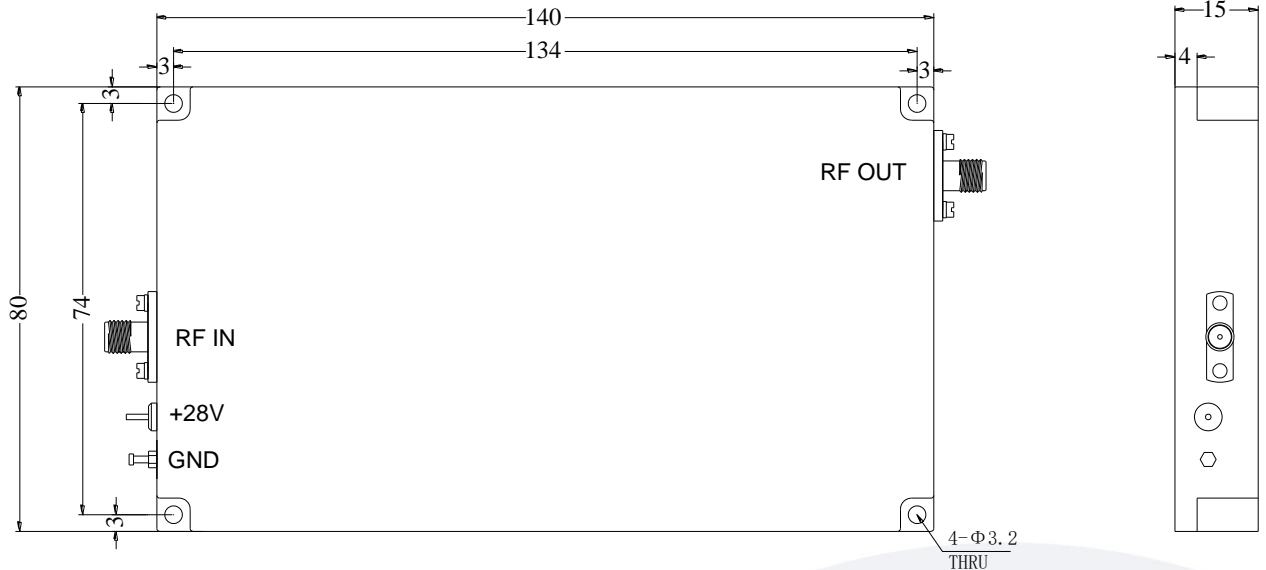
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	140X80X15	mm
重量 Weight	250	g


**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	30
输入功率 RF INPUT POWER	3 dBm
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)	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
TLPA1800M4G-45-42	Power amplifier 1.8Hz-4GHz,Gain:45dB,Psat:42dBm,28V DC, Without Heatsink	Rev.1.0
TLPA1800M4G-45-42-HS	Power amplifier 1.8Hz-4GHz,Gain:45dB,Psat:42dBm,28V DC, With Heatsink	Rev.1.0