

Model:TLPA2G6G-30-33
Power Amplifier
2-6GHz, Gain:33dB, P1dB:35dBm
Feature :

- Ultra Wide Band: 2-6GHz
- Gain: 30dB Min
- Psat Output Power: 36 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	2-6			GHz
小信号增益 Small signal Gain	30	33		dB
增益平坦度 Gain Flatness		±2.0	±2.5	dB
线性输出功率P1dB	33	35		dBm
饱和输出功率 Psat		36		dBm
输入驻波 Input VSWR		1.6	2.0	:1
最大输入功率Input Max Power			10	dBm
三阶交调 IP3		42		dBm
杂散 Internally Generated Spurious		-60		dBc
直流电压 DC Voltage		+28		V DC
直流电流 DC Current(Vcc=+28v)(@Pout=2W)		0.6	1	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

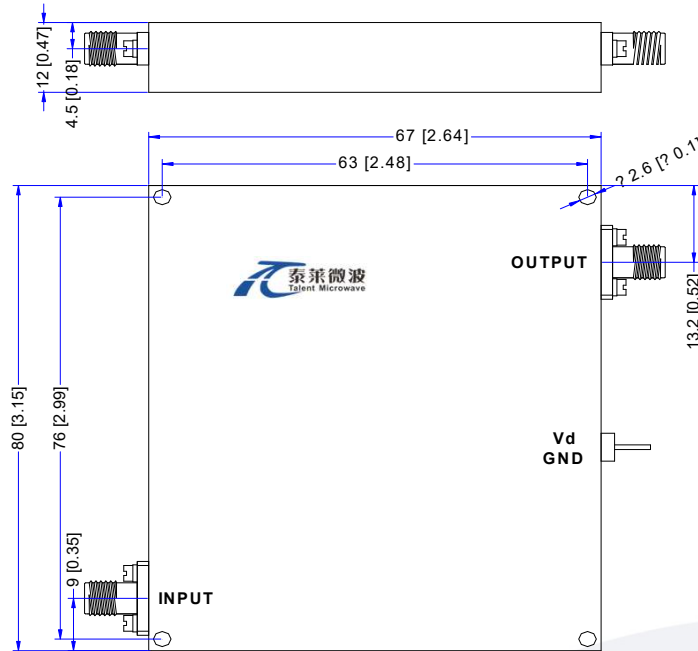
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	/	
尺寸 Size	80*67*12	mm
重量 Weight	/	g


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	-20		+50	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	100%RH at 35°C, 95%RH at 40°C			%
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
TLPA2G6G-30-33	Power amplifier 2-6GHz,Gain:33dB,P1dB:35dBm,28V DC, Without Heatsink	Rev.1.0
TLPA2G6G-30-33-HS	Power amplifier 2-6GHz,Gain:33dB,P1dB:35dBm,28V DC, With Heatsink	Rev.1.0

典型曲线 Typical Performance Data:

Gain&Return Loss

