

Model: TLPA12G18G-36-31
Power Amplifier
12-18GHz, Gain: 36dB, P1dB: 30dBm
Feature:

- Ultra Wide Band: 12-18GHz
- Gain: 33 dB Min
- Output Power: 31 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	12-18			GHz
增益 Gain	33	36		dB
增益平坦度 Gain Flatness		±1.5		dB
线性输出功率 Output P1dB	30			dB
饱和输出功率 Output Psat		31		dBm
输入驻波 Input VSWR		1.8		:1
输出驻波 Output VSWR		1.8		:1
最大输入功率 Input Max Power			+10	dBm
直流电压 DC Voltage		12		V DC
直流电流 DC Supply Current		1.5	2	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

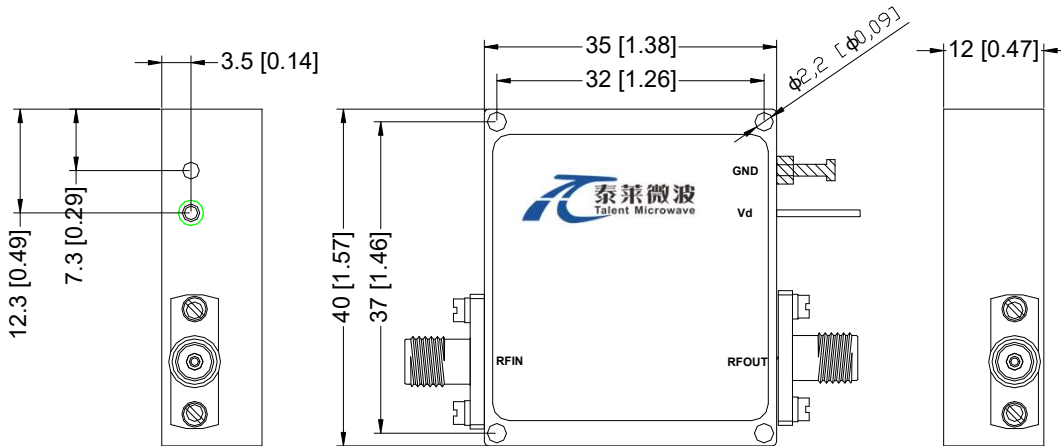
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	35*40*12	mm
重量 Weight	/	g


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+13V
输入功率 RF INPUT POWER	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm(inches)



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

*****Heat Sink Required During Operation**

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	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
TLPA12G18G-36-31	Power amplifier 12-18 GHz,Gain:36dB,P1dB:30dBm,12V DC, Without Heatsink	Rev.1.1
TLPA12G18G-36-31-HS	Power amplifier 12-18 GHz,Gain:36dB,P1dB:30dBm,12V DC, With Heatsink	Rev.1.1