

Model:TLPA37G42G-35-23
Power Amplifier
37-42GHz,Gain:35dB,P1dB:23dBm
Feature:

- Ultra Wide Band: 37-42GHz
- Gain: 36dB Typ
- Psat Output Power: 24 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	37-42			GHz
小信号增益 small signal Gain		36		dB
增益平坦度 Gain Flatness			±2	dB
线性输出功率P1dB		23		dBm
饱和输出功率 Psat		24		dBm
输入驻波 Input VSWR		1.8	2.5	:1
输出驻波 Output VSWR		1.8	2.5	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		1		A
阻抗 Impedance		50		Ohms

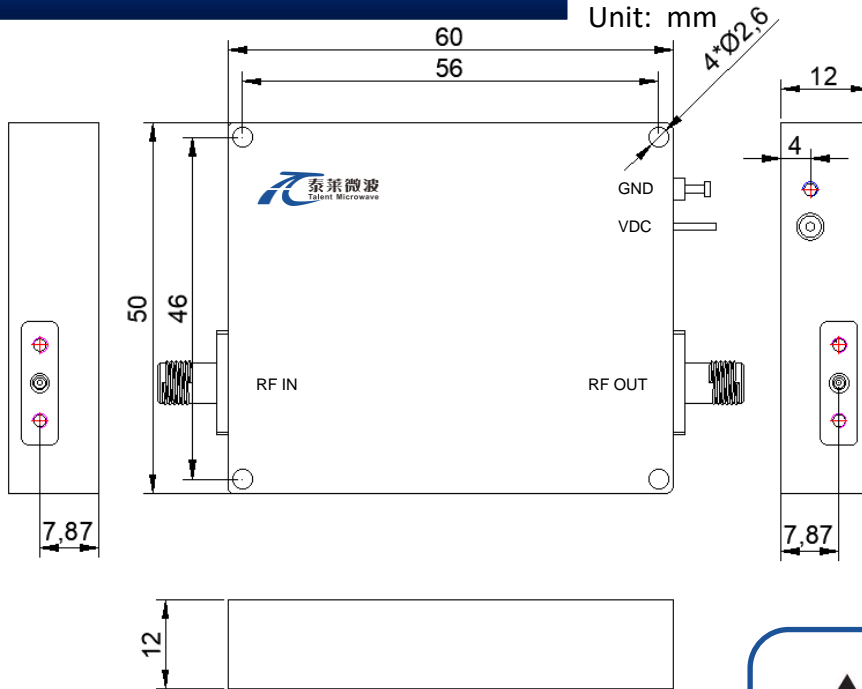
机械特性 Mechanical :

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.4mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	56*65*12.7	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	-5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:



*****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	-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
TLPA37G42G-35-23	Power amplifier 37-42GHz,Gain:35dB,P1dB:23dBm,12V DC, Without Heatsink	Rev.1.1