

Model:TLPA37G42G-35-23
Power Amplifier
37-42GHz,Gain:36dB,Psat:23dBm
Feature:

- Ultra Wide Band: 37-42GHz
- Gain:36dB Typ
- Psat Output Power:24dBm 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	37-42			GHz
增益 Gain		36		dB
增益平坦度 Gain Flatness			±2	dB
线性输出功率 Output P1dB		23		dBm
饱和输出功率 Output 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 Specifications:

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.4 Female/2.4 Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	60*50*12	mm
重量 Weight	/	g

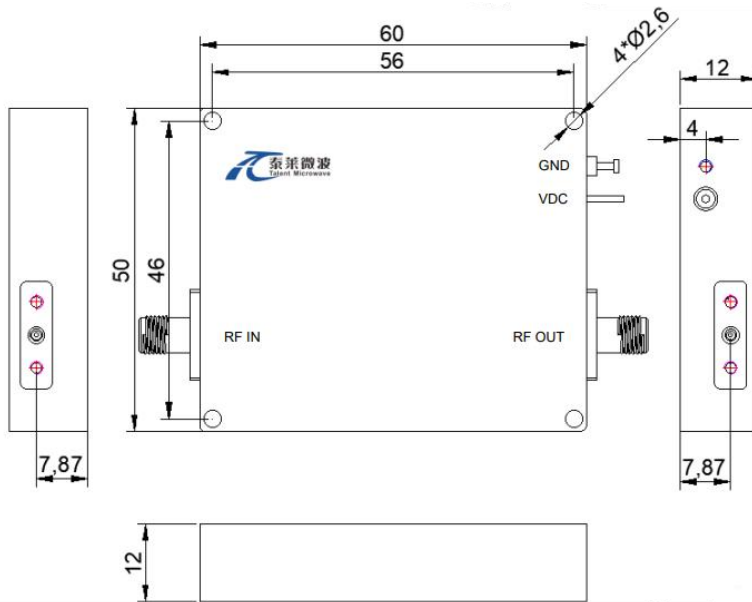
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	-5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
 Benchtop Amplifier**

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	-40		+75	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000		30000	feet
震动 Shock / Vibration(MIL-STD-810F)	Airborne			
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:36dB,P1dB:23dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA37G42G-35-23-HS	Power amplifier 37-42GHz,Gain:36dB,P1dB:23dBm,+12V DC,With Heatsink.	Rev.1.1