

**Model:TLPA40G42G-40-34**
**Power Amplifier  
 40-42GHz,Gain:40dB,P1dB:33dBm**
**Feature:**

- Ultra Wide Band: 40-42GHz
- Gain: 40dB Min
- Psat Output Power: 34 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	40-42			GHz
小信号增益 small signal Gain	40			dB
增益平坦度 Gain Flatness		±1.5		dB
线性输出功率P1dB	33			dBm
饱和输出功率 Psat		34		dBm
输入驻波 Input VSWR		2.0		:1
杂散抑制 Spurious		-60		dBc
最大输入功率Input Max Power			0	dBm
直流电压 DC Voltage			+28	V DC
直流电流 DC Supply Current		1.5		A
阻抗 Impedance		50		Ohms

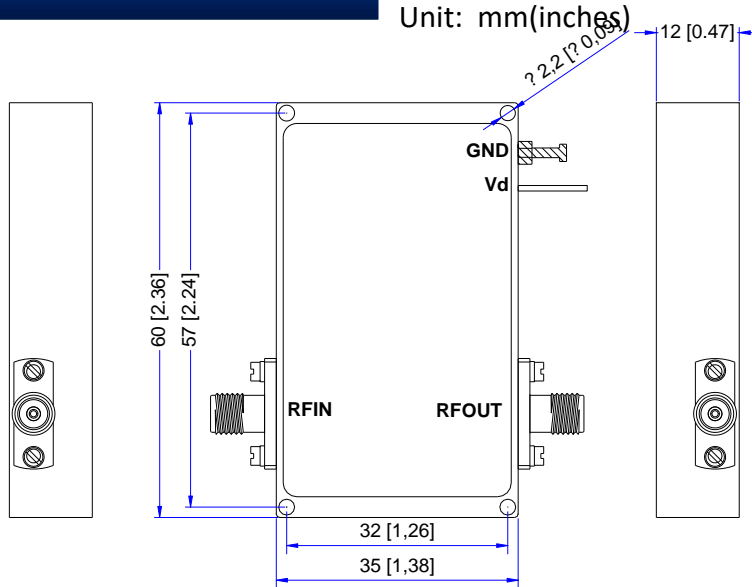
**机械特性 Mechanical :**

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.4mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	35*60*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:



**\*\*\*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	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
TLPA40G42G-40-34	Power amplifier 40-42GHz,Gain:40dB,P1dB:33dBm,28V DC, Without Heatsink	Rev.1.1
TLPA40G42G-40-34-HS	Power amplifier 40-42GHz,Gain:40dB,P1dB:33dBm,28V DC, With Heatsink	Rev.1.1