

## Power Amplifier

33-37GHz/40dB Gain/37dBm Psat

Model: TLPA33G37G-40-37

TLPA33G37G-40-37 is a power amplifier with a minimum power gain of 40 dB and a minimum Psat of 37 dBm across the frequency range of 33 to 37 GHz. The DC power requirement for the amplifier is +24 VDC/50 W. The input and output port configuration offers coax adapter structure with 2.4mm female.

### Features:

- Frequency range: 33-37GHz
- Power Gain: 40dB Min
- Output Power Psat: 37dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

## 电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	33-37			GHz
功率增益 Power Gain	40			dB
饱和增益平坦度 Psat Flatness		±1.5		dB
线性增益平坦度 Linear gain flatness		±3		dBm
饱和输出功率 Output Psat	37			dBm
杂散 Spurious@Pout=37dBm			-50	dBc
谐波 Harmonics			-20	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		+24		V DC
功耗 Power Consumption			50	W
阻抗 Impedance	50			Ohms

## 机械特性 Mechanical Specifications:

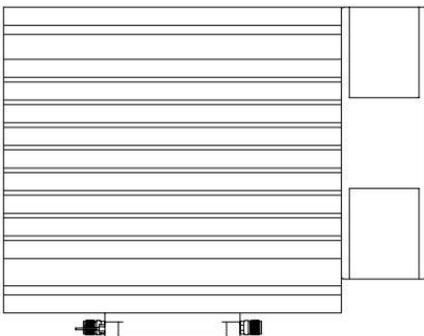
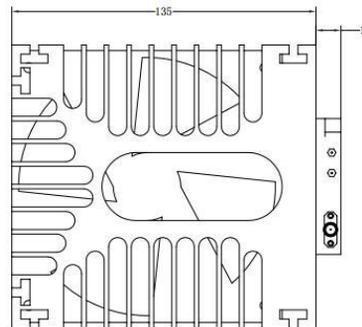
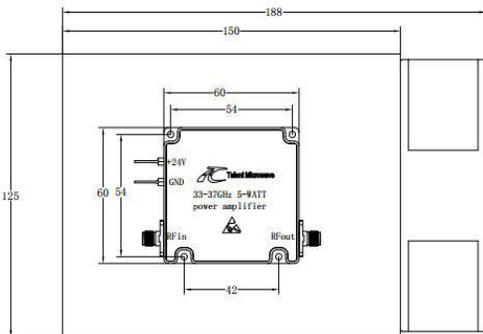
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.4mm Female/2.4mm Female	
直流供电 DC Supply	Feedthru capacitors	
尺寸 Size	60*60*11(Without heatsink) 188*125*146(With heatsink)	mm
重量 Weight	≤200	g

## 绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+26 V
输入功率 RF Input Power	+5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

## 外形图 Outline Drawing:

Unit:mm



## 温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+60	°C
存储温度 Non-operating Temperature*	-50		+70	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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			

\*Note: For a wider temperature range, please consult the manufacturer.

## 订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLPA33G37G-40-37	Power amplifier 33-37GHz, Gain:40dB,Psat:37dBm,+24V DC,Without Heatsink	Rev.1.1
TLPA33G37G-40-37-HS	Power amplifier 33-37GHz, Gain:40dB,Psat:37dBm,+24V DC,With Heatsink	Rev.1.1