

Power Amplifier

26-40GHz/37dB Gain/37dBm Psat

Model: TLPA26G40G-37-37

TLPA26G40G-37-37 is a power amplifier with a typical small signal gain of 37 dB and a minimum Psat of 37 dBm across the frequency range of 26 to 40 GHz. The DC power requirement for the amplifier is +24 VDC/1.1 A. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 26-40GHz
- Gain: 37dB Typ
- 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	26		40	GHz
小信号增益 Small Signal Gain		37		dB
饱和输出功率 Output Psat	37			dBm
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		24		V DC
直流电流 DC Supply Current		1.1		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	2.92mm Female/2.92mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	46.4*80*12(Without heatsink) 100*200*56(With heatsink)	mm

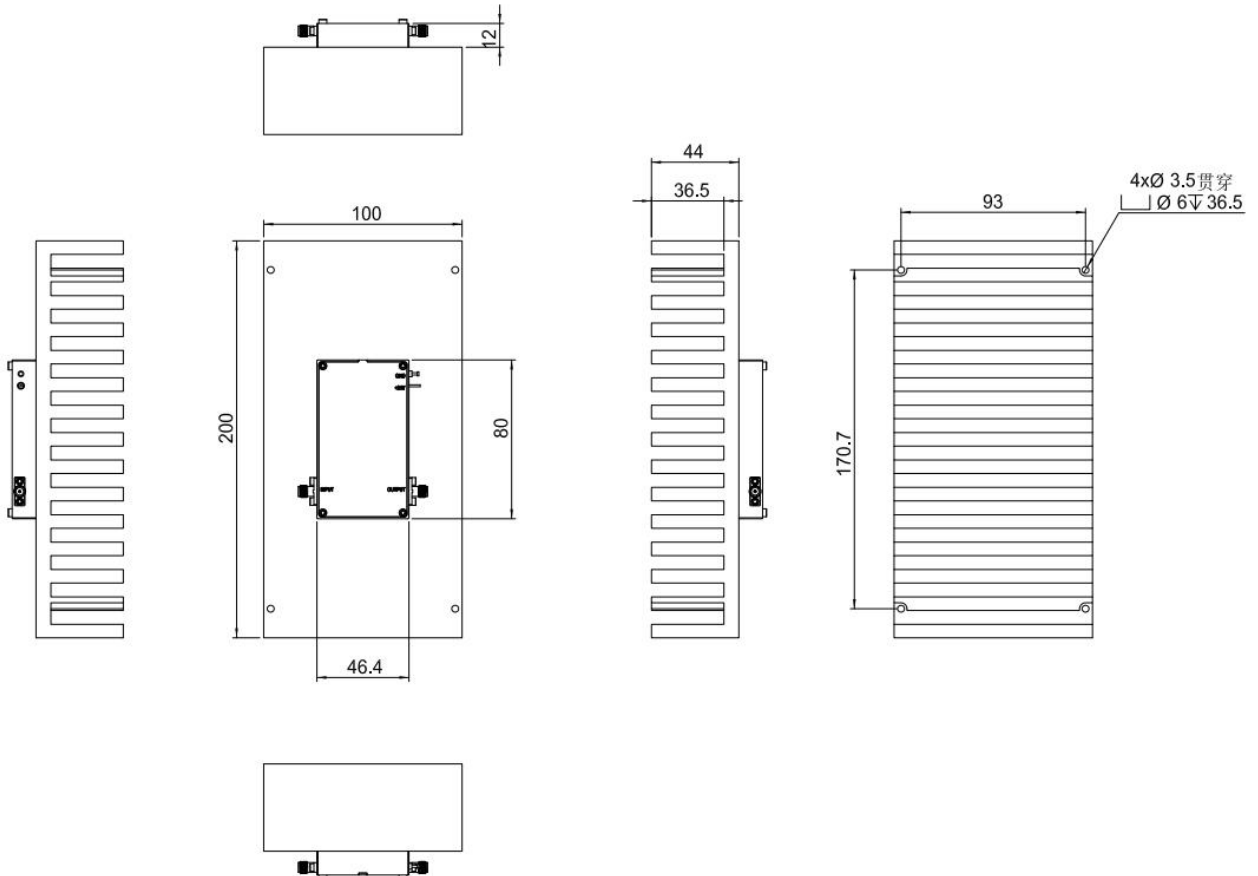
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+26 V
输入功率 RF Input Power	+20 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



外形图 Outline Drawing:

Unit:mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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			

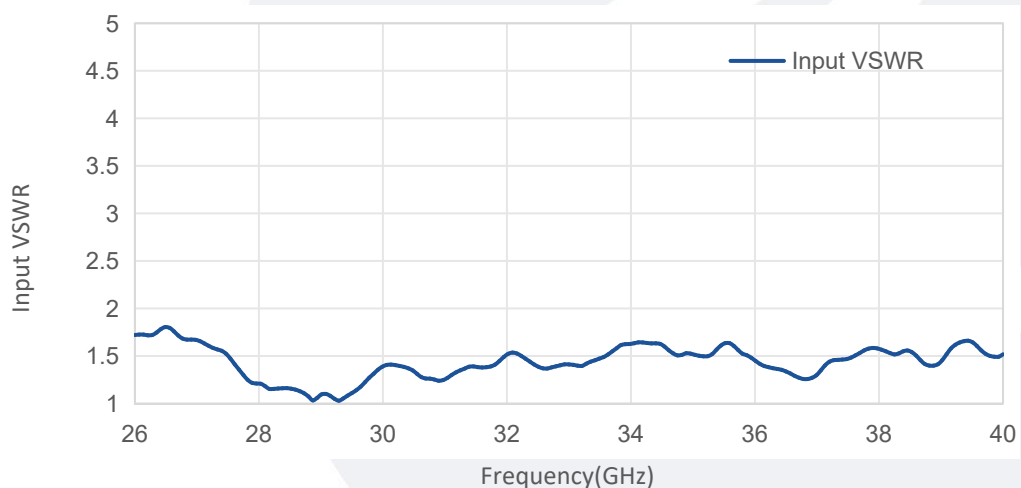
*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLPA26G40G-37-37	Power amplifier 26-40GHz, Gain:37dB,Psat:37dBm,+24V DC,Without Heatsink	Rev.1.0
TLPA26G40G-37-37-HS	Power amplifier 26-40GHz, Gain:37dB,Psat:37dBm,+24V DC,With Heatsink	Rev.1.0

典型曲线 Typical Performance Data:

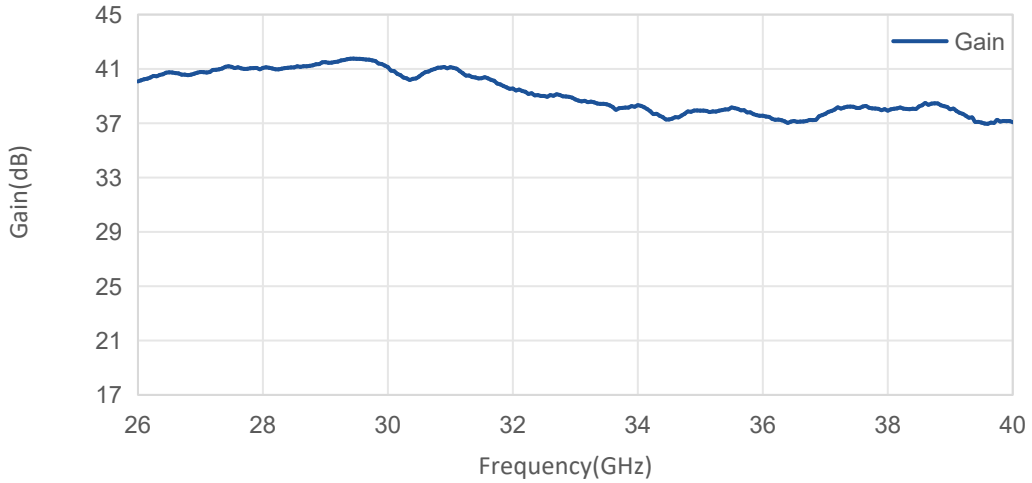
Input VSWR vs Frequency



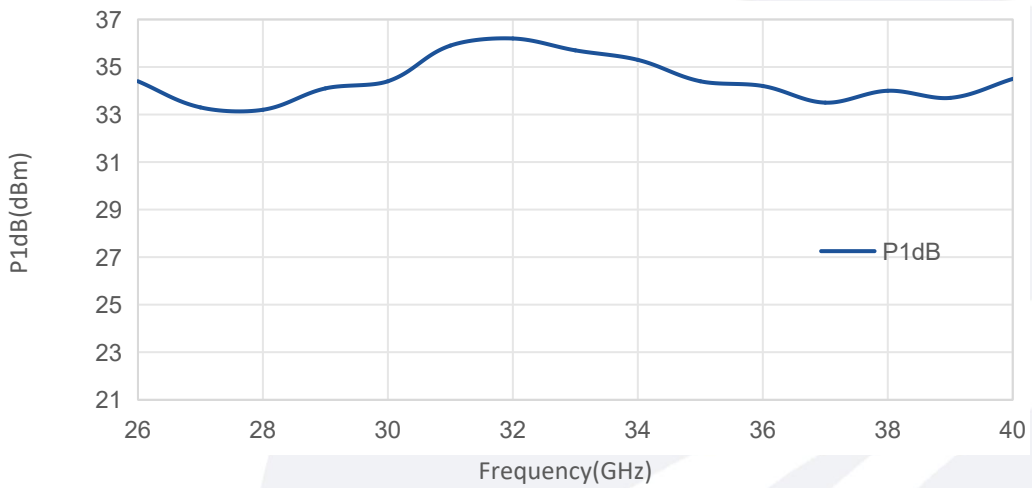
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

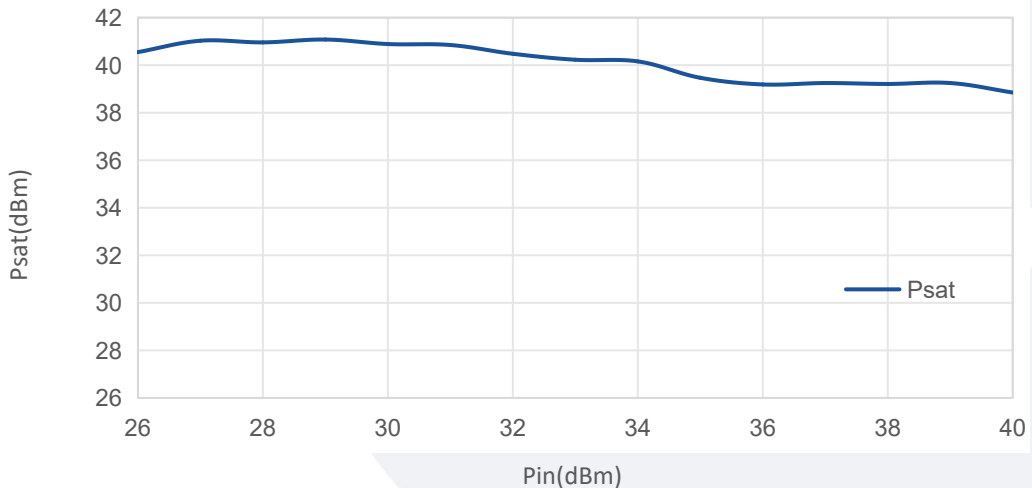
Small Signal Gain vs Frequency



P1dB vs Frequency



Psat vs Frequency



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