

Power Amplifier

26.5-40GHz /40dB Gain/40 dBm Psat

Model: TLPA26.5G40G-40-40

TLPA26.5G40G-40-40 is a power amplifier with a minimum small signal gain of 40 dB and a typical Psat of 40 dBm across the frequency range of 26.5 to 40 GHz. The DC power requirement for the amplifier is +220 VAC. The input port configuration offers coax adapter structure with 2.92mm female and output port configuration offers coax adapter structure with 2.92mm female or WR28.

Features:

- Frequency range: 26.5-40GHz
- Gain: 40dB Min
- Output Power Psat: 40dBm Typ
- 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	26.5-40			GHz
小信号增益 Small Signal Gain	40			dB
饱和输出功率平坦度 Psat Flatness		±1		dB
线性输出功率 Output P1dB		35		dBm
饱和输出功率 Output Psat		40		dBm
杂散 Spurious			-50	dBc
谐波抑制 Harmonic			-25	dBc
输入驻波 Input VSWR			2	:1
交流电压 AC Voltage		220		V AC
功耗 Power Consumption			150	W
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

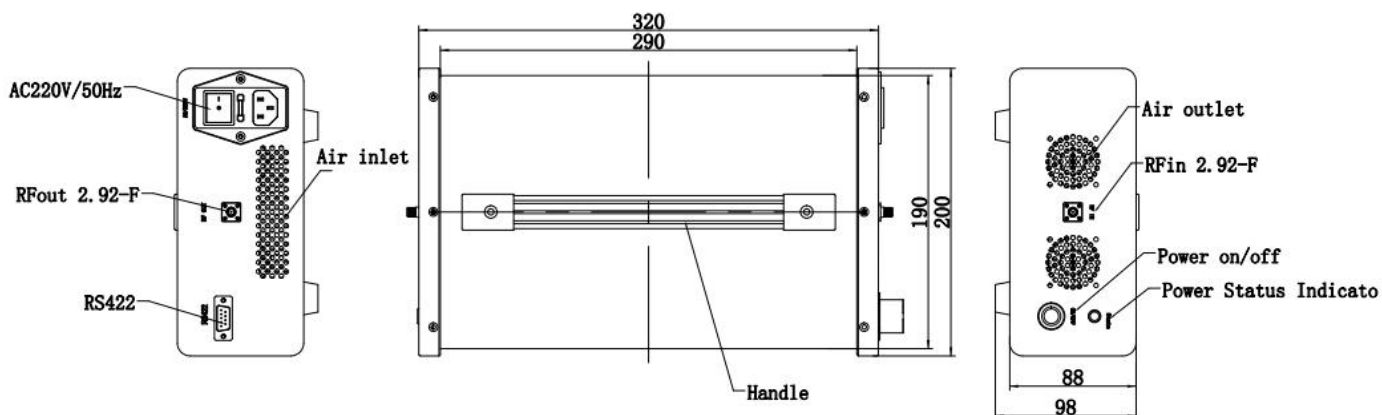
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/29.2mm Female or WR28	
交流供电接口 AC Supply Connector	Standard AC Socket	
尺寸 Size	320*200*98	mm
重量 Weight	≤5	Kg

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	260 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



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

温度环境 Environmental Conditions:

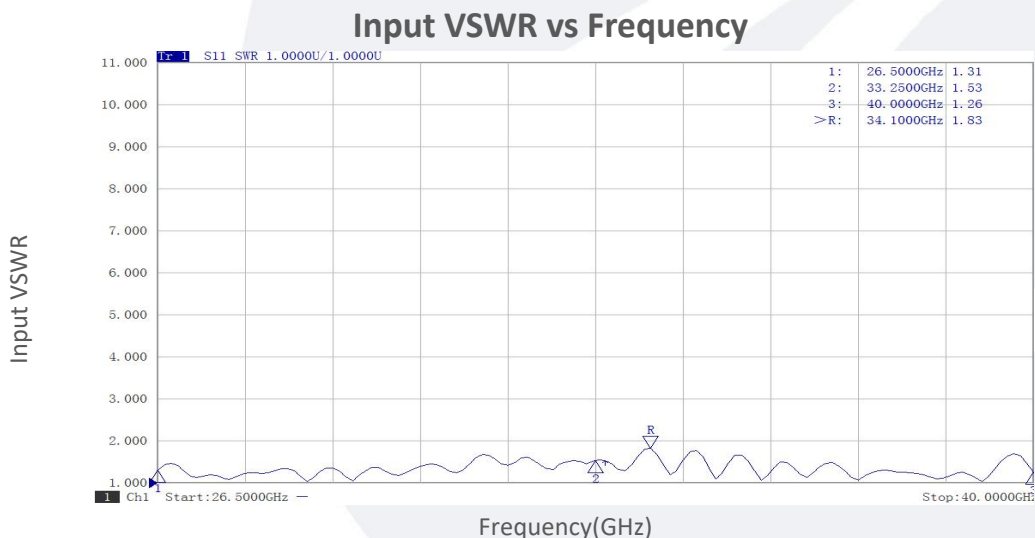
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-20		+50	°C
存储温度 Non-operating Temperature*	-30		+60	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc 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
TLPA26.5G40G-40-40	Power amplifier 26.5-40GHz, Gain:40dB,Psat:40dBm,220V AC	Rev.1.1

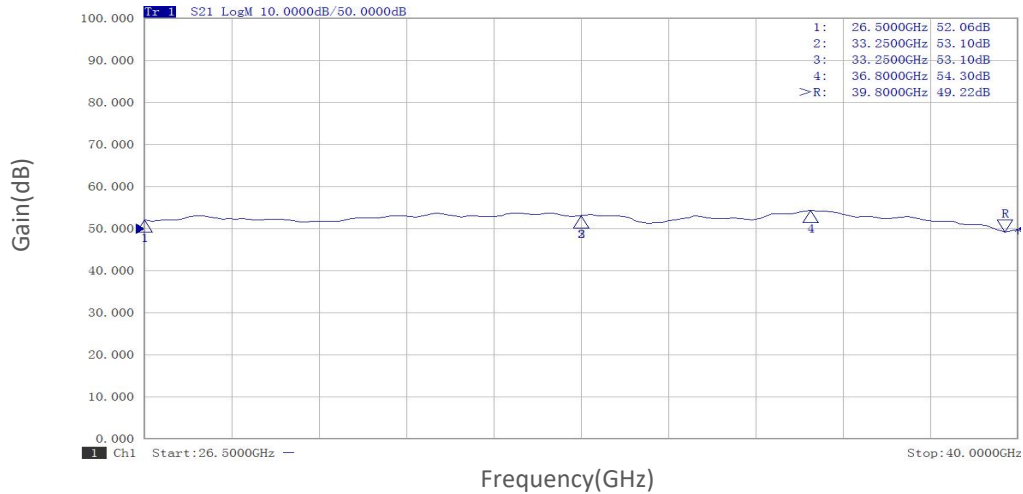
典型曲线 Typical Performance Data:



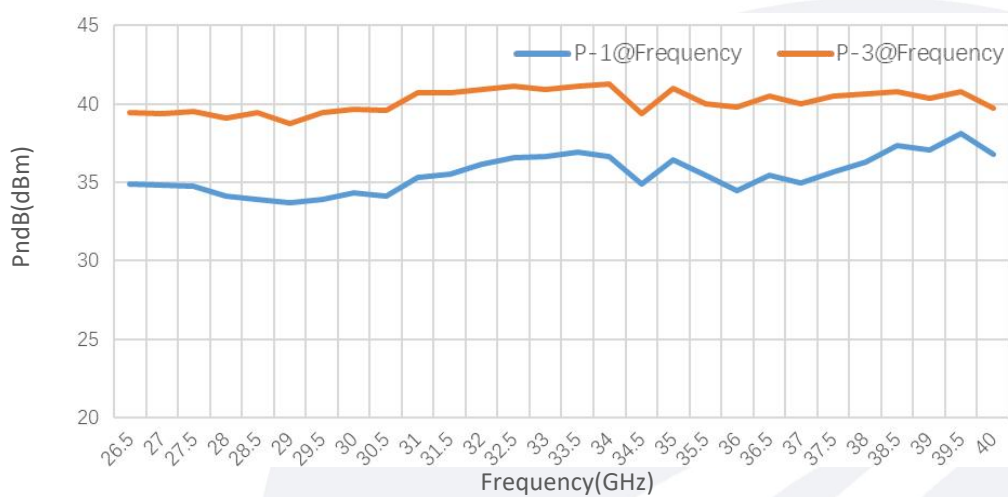
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

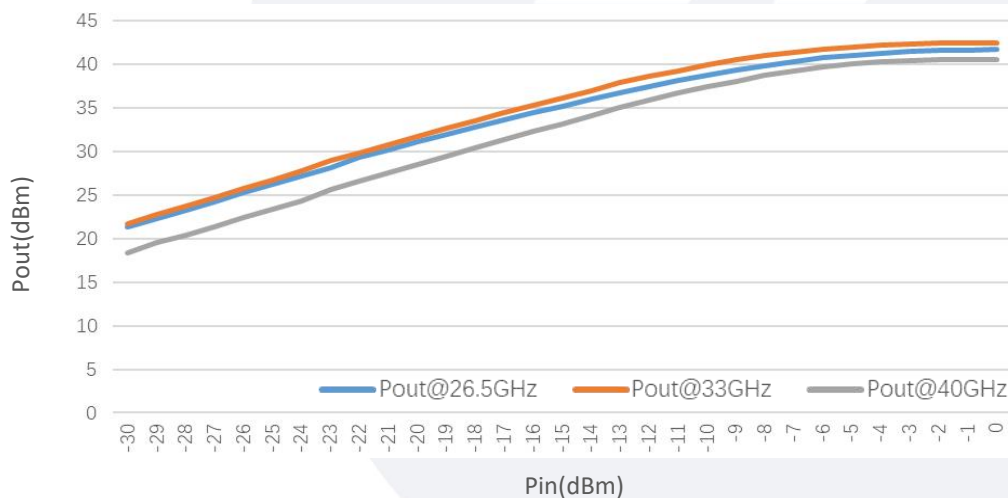
Small Signal Gain vs Frequency



PndB vs Frequency



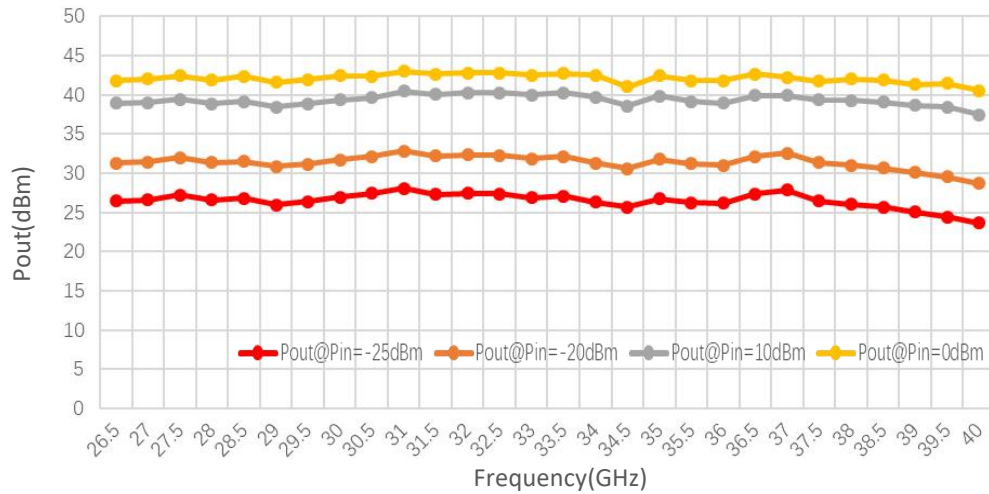
Pout@Pin



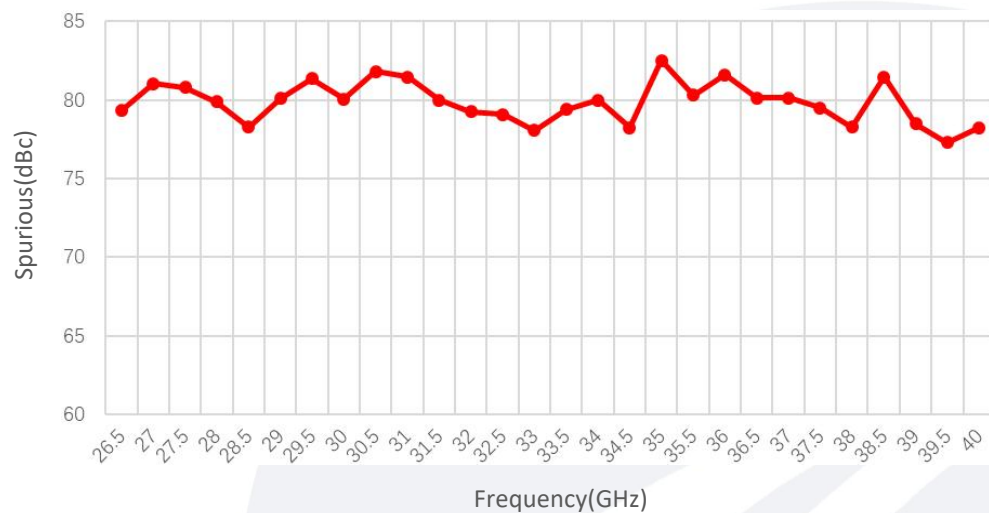
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

Pout@Equal_Pin



Spurious vs Frequency



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