

Power Amplifier

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

TLPA26.5G40G-40-40

TURPA26.5G40G-4040 is a power amplifier with a minimum small signal gain of 40 dB and a minimum Psat of 40 dBm across the frequency range of 26.5 to 40 GHz. The DC power requirement for the amplifier is +22 VDC/7.5A. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 26.5-40GHz
- Gain: 40dB Min
- Output Power Psat: 40dBm minimum
- 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
增益平坦度 Gain Flatness		±4.5		dB
饱和输出功率 Output Psat	40	41		dBm
杂散 Spurious			-50	dBc
输入驻波 Input VSWR		2	2.5	:1
直流电压 DC Voltage		22	24	V DC
直流电流 DC Supply Current			7.5	A
阻抗 Impedance	50			Ohms

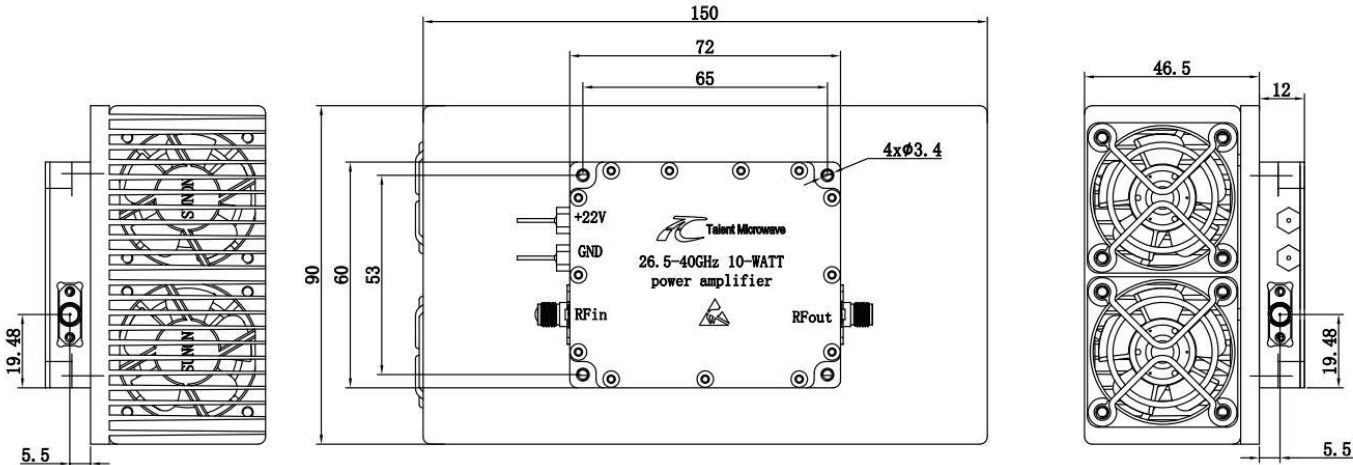
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/29.2mm Female	
交流供电接口 AC Supply Connector	Feedthru capacitors	
尺寸 Size	72*60*12(Without heatsink) 150*90*58.5(With heatsink)	mm
重量 Weight	300	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+24 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



温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-20		+50	℃
存储温度 Non-operating Temperature*	-30		+60	℃
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:

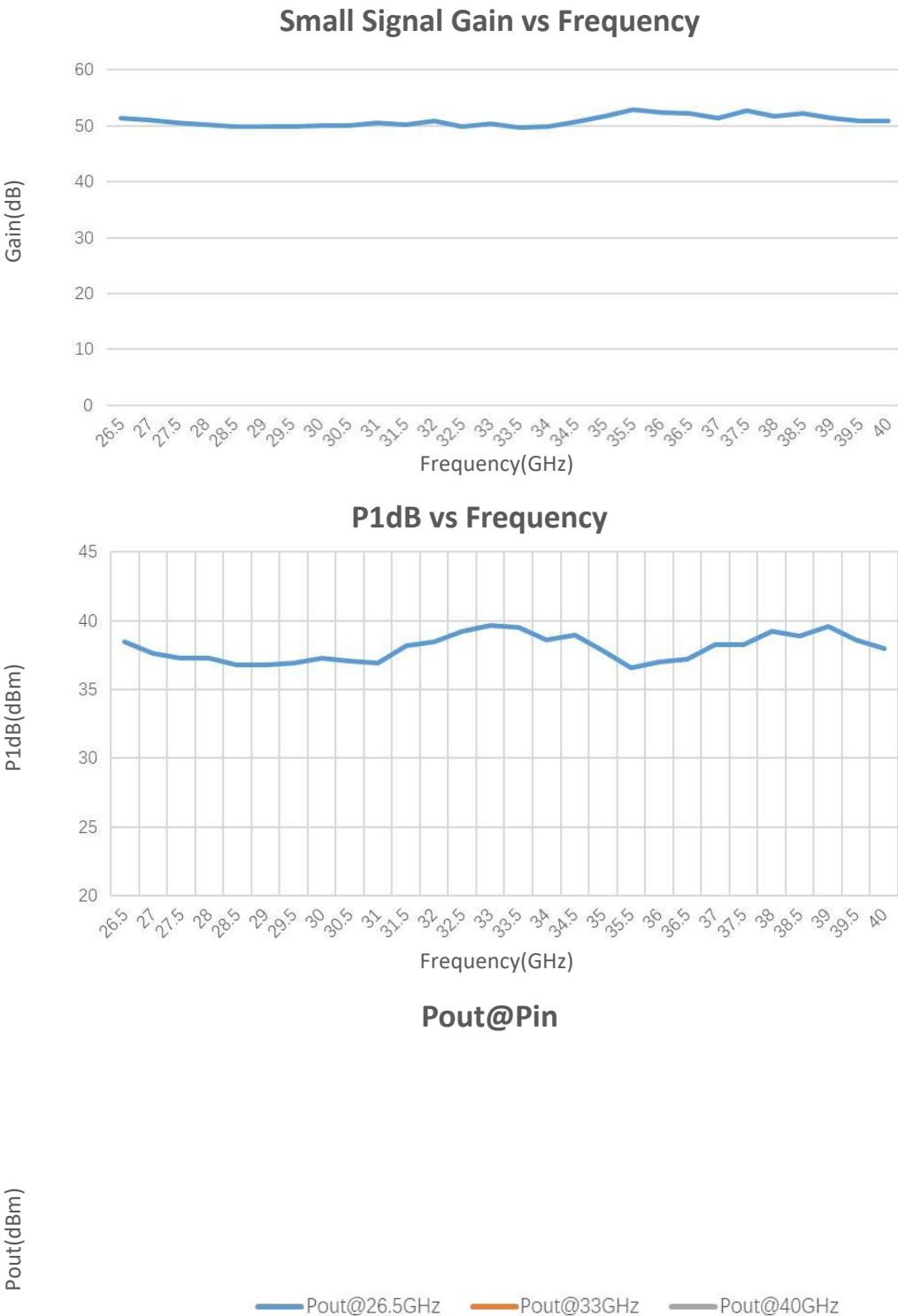
标准型号 Base Number	描述 Description	版本号 Revision
TURPA26.5G40G-4040	Power amplifier 26.5-40GHz, Gain 40dB,Psat:40dBm,+22VDC,Without Heatsink.	Rev.1.1
TURPA26.5G40G-4040 HS	Power amplifier 26.5-40GHz, Gain 40dB,Psat:40dBm,+22VDC,With Heatsink.	

典型曲线 Typical Performance Data:

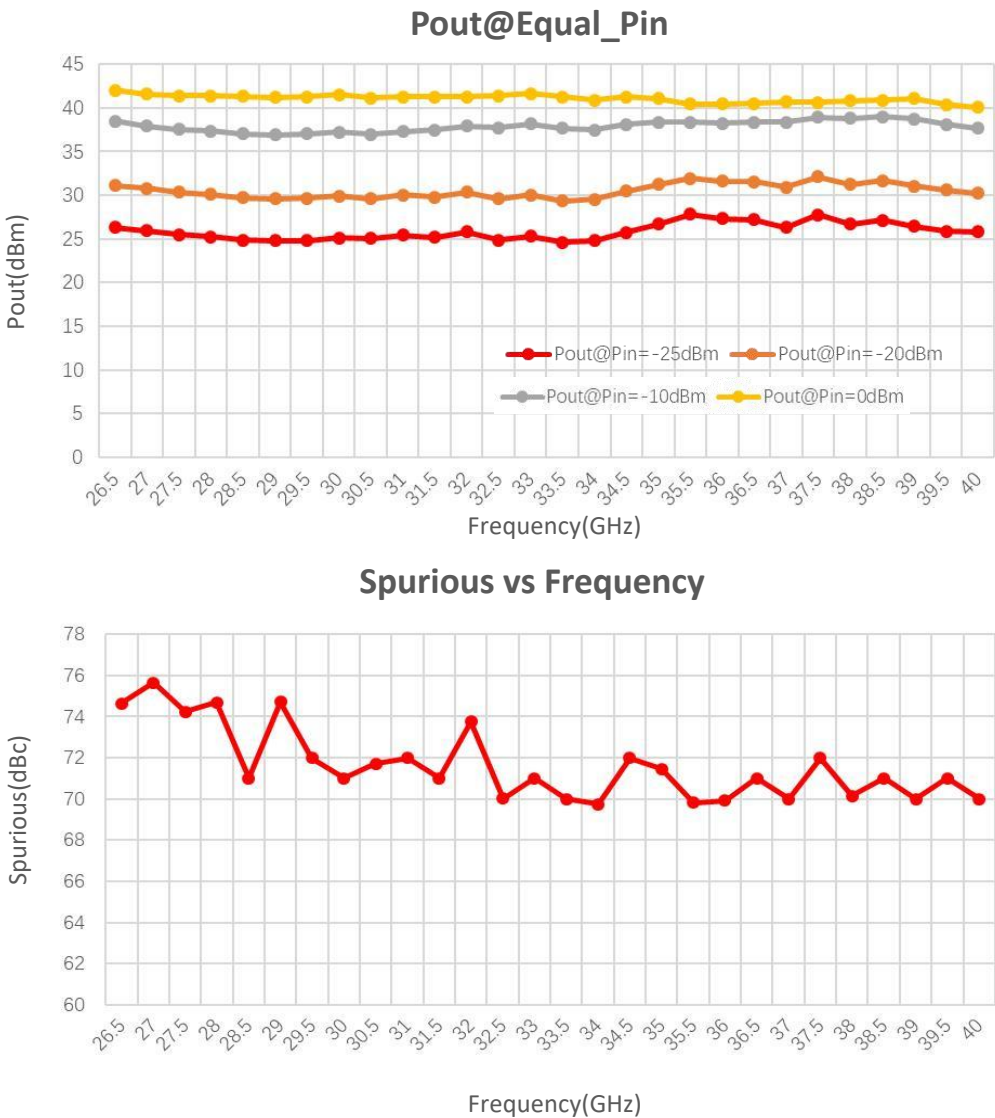
Input VSWR vs Frequency

Input VSWR

典型曲线 Typical Performance Data:



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.