

**Model:TLPA26.5G40G-47-47**
**Power Amplifier**  
**26.5-40GHz,Gain:47dB,Psat:47dBm**
**Feature:**

- Ultra Wide Band:26.5-40GHz
- Gain:47dB Min
- Psat Output Power: 47dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**电气特性 Electrical Specifications:**

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	26.5-40			GHz
增益 Gain	47			dB
增益平坦度 Gain Flatness		±4.5		dB
饱和输出功率 Output Psat	47			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			30	A
阻抗 Impedance	50			Ohms

**机械特性 Mechanical Specifications:**

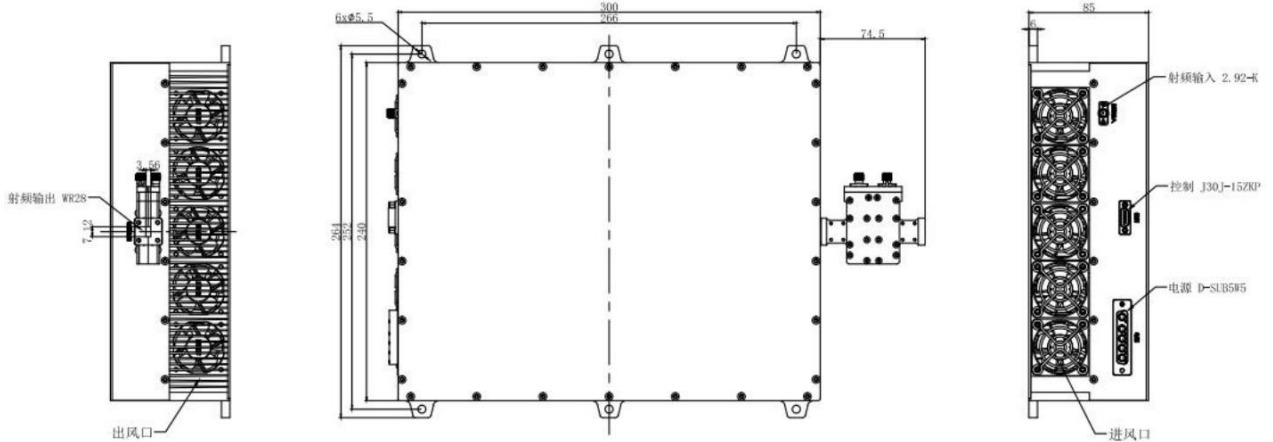
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92 Female WR28	
DC加电接口 DC Power Interface	SUB-2W2	
控制及检测接口 Control and Test Connector	J30J-9ZKP	
正向/反向耦合 Forward/Reverse Coupling Connector	2.92 Female/2.92 Female	
尺寸 Size	300*264*85	mm
重量 Weight	10	Kg

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+24V
输入功率 RF Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸Outline Drawing:

Unit: Inch



**\*\*\*Heat Sink Required During Operation**



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

SUB-2W2 Define	
引脚 Pin	功能 Function
A1	+24V
A2	GND
Pin1	TTL(high for open,low for close)
Pin2	Current Monitor
Pin3	Temperature Monitor
Pin4	0.5dB Attenuation
Pin5	1dB Attenuation
Pin6	2dB Attenuation
Pin7	4dB Attenuation
Pin8	8dB Attenuation
Pin9	16dB Attenuation
Pin10-15	GND

**温度环境 Environmental Conditions:**

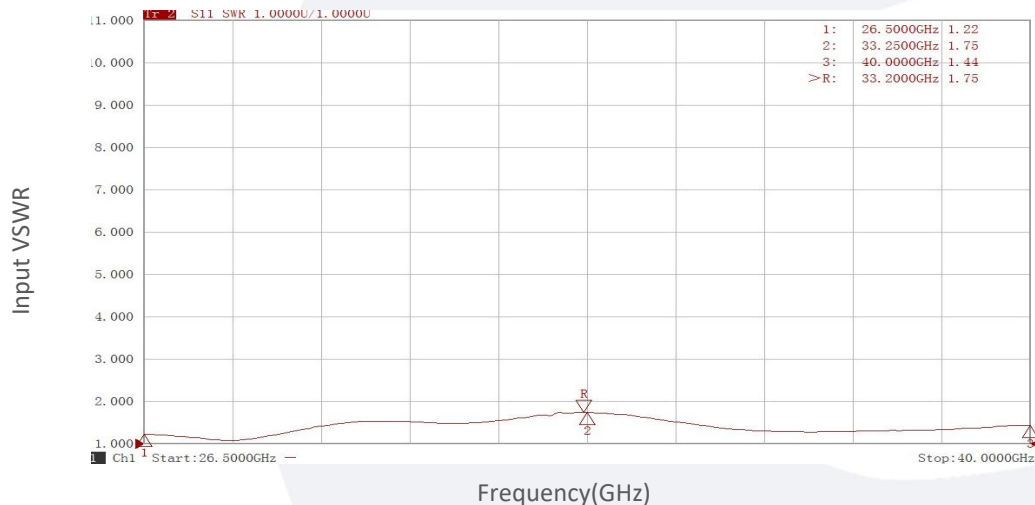
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	0		+40	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**订货信息 Ordering Information:**

标准型号 Part Number	描述 Description	版本号Revision
TLPA26.5G40G-47-47	Power amplifier 26.5-40GHz, Gain:47dB, Psat:47dBm, +24V DC, Without Heatsink	Rev.1.1
TLPA26.5G40G-47-47-HS	Power amplifier 26.5-40GHz, Gain:47dB, Psat:47dBm, +24V DC, With Heatsink	Rev.1.1

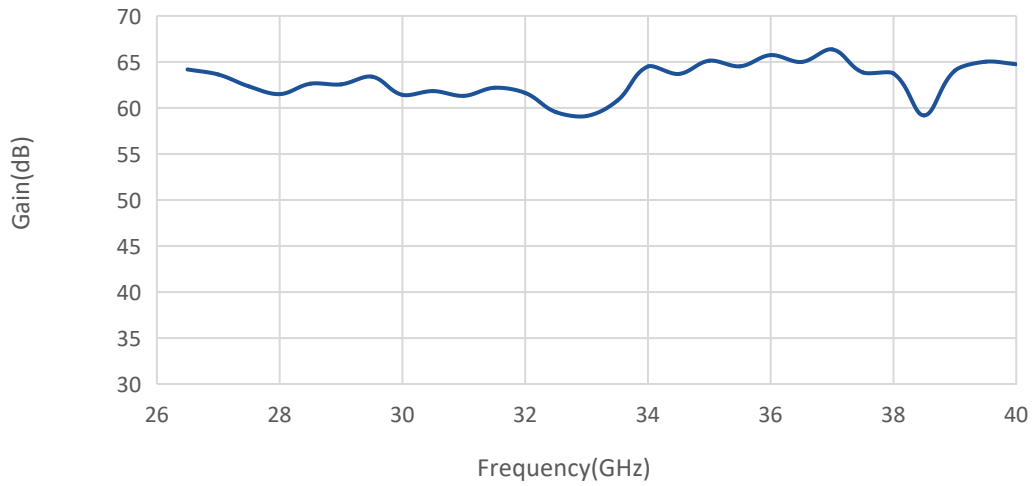
**典型曲线 Typical Performance Data:**

**Input VSWR vs Frequency**

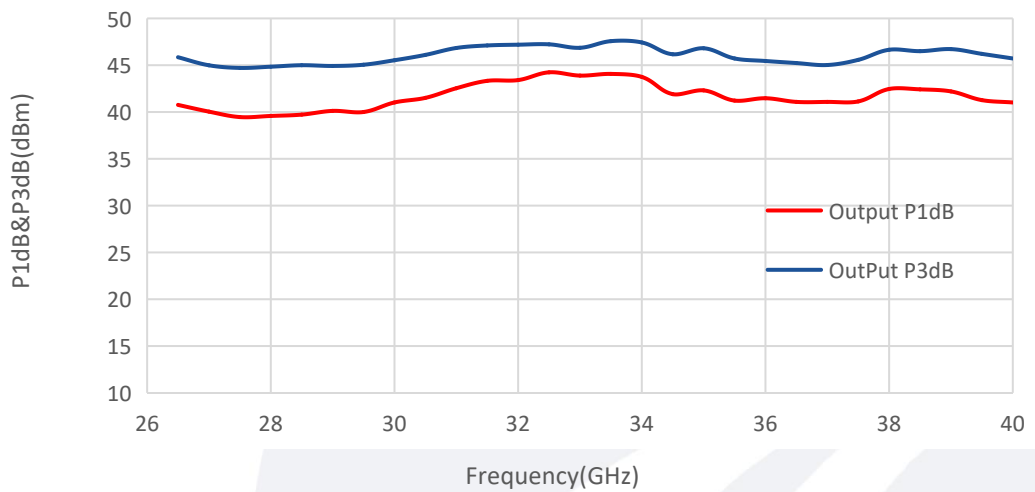


典型曲线 Typical Performance Data:

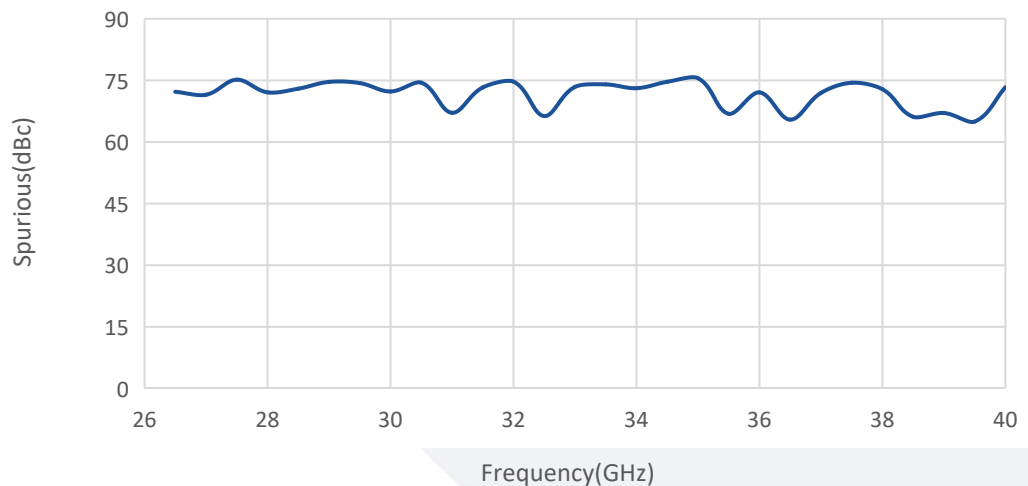
**Gain vs Frequency**



**P1dB&P3dB vs Frequency**

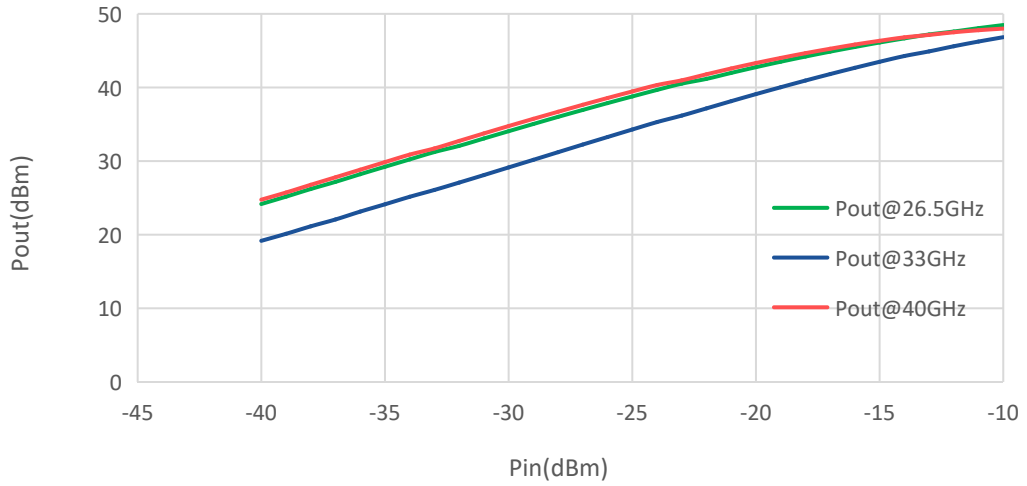


**Spurious vs Frequency**



典型曲线 Typical Performance Data:

Pout@Pin



Pout@Equal\_Pin

