

## Power Amplifier

18-26.5GHz/40dB Gain/40dBm Psat

Model: TLPA18G26.5G-40-40

TLPA18G26.5G-40-40 is a power amplifier with a minimum power gain of 40 dB and a minimum Psat of 40 dBm across the frequency range of 18 to 26.5 GHz. The DC power requirement for the amplifier is +20 VDC/70 W. The input and output port configuration offers coax adapter structure with 2.92mm female.

### Features:

- Frequency range: 18-26.5GHz
- Gain: 40dB Min
- Output Power Psat: 40dBm 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	18-26.5			GHz
功率增益 Power Gain	40			dB
饱和输出功率 Output Psat	40			dBm
杂散 Spurious			-50	dBc
谐波抑制 Harmonic			-15	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		20		V DC
功耗 Power Consumption			70	W
阻抗 Impedance	50			Ohms

### 机械特性 Mechanical Specifications:

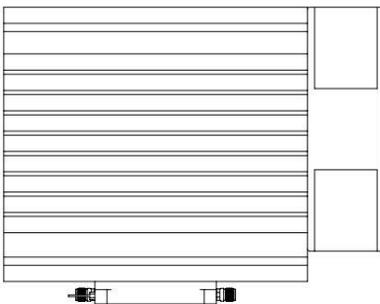
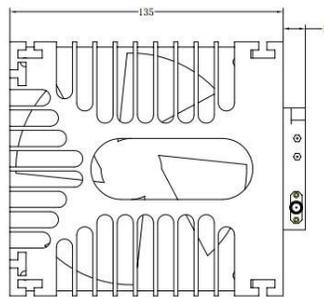
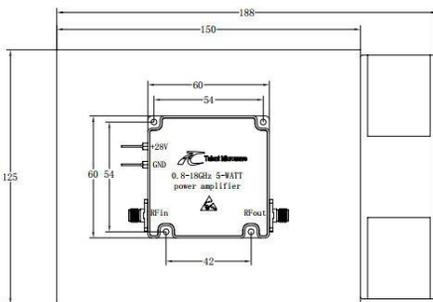
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
直流偏置 DC Bias	Feedthru capacitors	
尺寸 Size	60*60*11(Without heatsink) 188*125*135(With heatsink)	mm
重量 Weight	≤200	g

### 绝对最大值 Absolute Maximum Ratings:

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



## 温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+50	°C
存储温度 Non-operating Temperature*	-50		+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			

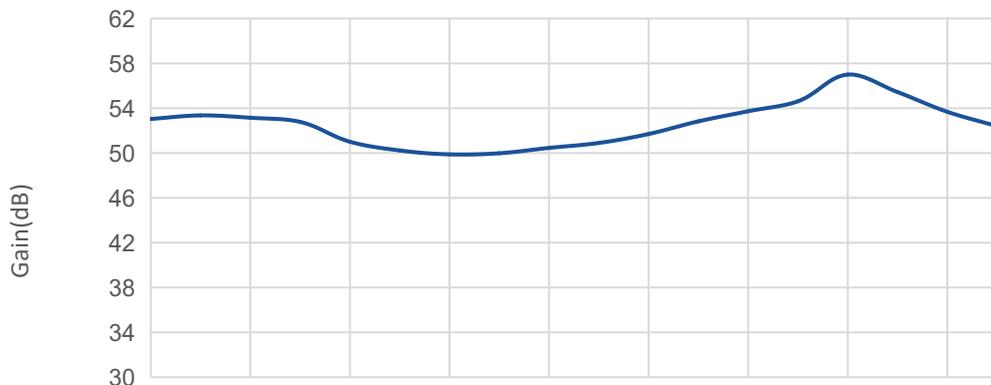
\*Note: For a wider temperature range, please consult the manufacturer.

## 订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLPA18G26.5G-40-40	Power amplifier 18-26.5GHz, Gain:40dB,Psat:40dBm,+20V DC,Without Heatsink	Rev.1.1
TLPA18G26.5G-40-40-HS	Power amplifier 18-26.5GHz, Gain:40dB,Psat:40dBm,+20V DC,With Heatsink	Rev.1.1

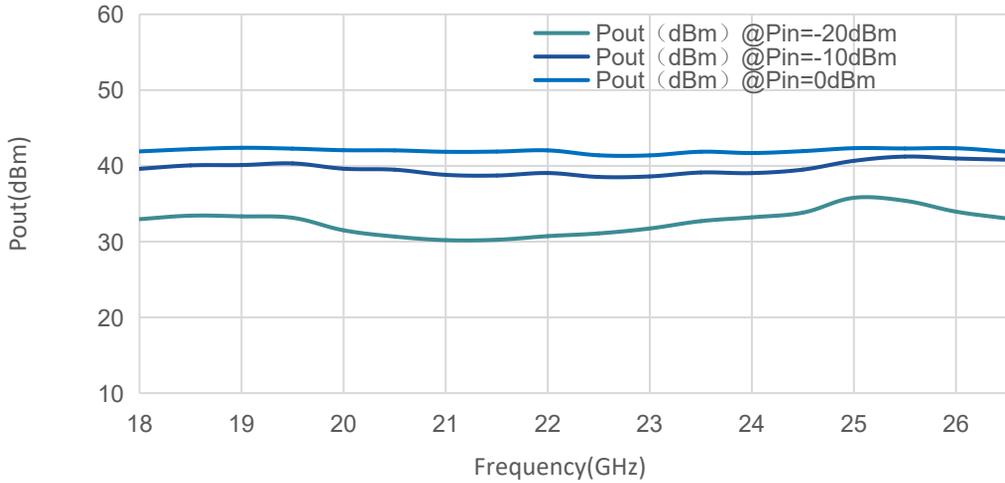
## 典型曲线 Typical Performance Data:

Small Signal Gain vs Frequency

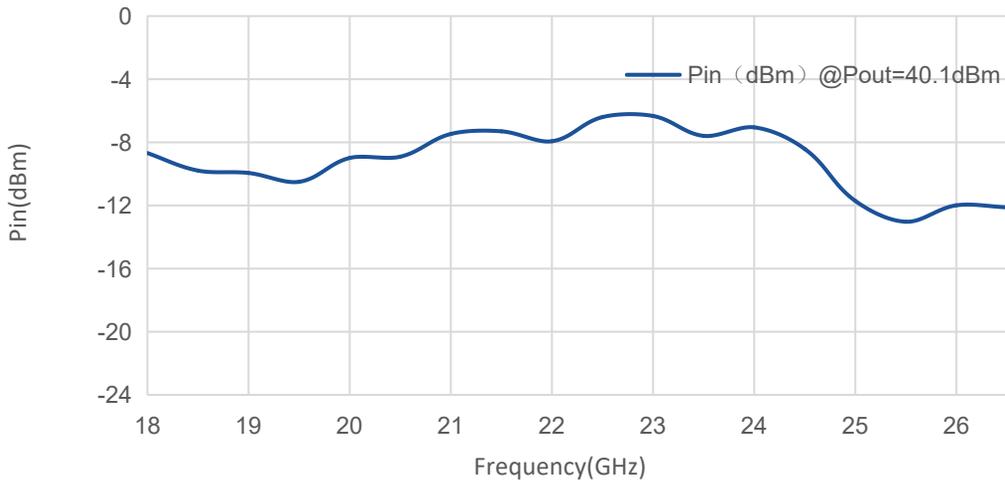


## 典型曲线 Typical Performance Data:

### Pout@Pin vs Frequency



### Pin@Pout vs Frequency



### Spurious vs Frequency

