泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Power Amplifier

6-18GHz/30dB Gain/34dBm Psat

Model: TLPA6G18G-30-34

TLPA6G18G-30-34 is a power amplifier with minimum power gain of 30 dB and a minimum Psat of 34 dBm across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +28VDC/0.8 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency: 6-18GHz
- Gain: 30dB Min
- Output Power Psat: 34dBm 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	6		18	GHz
功率增益 Power Gain	30			dB
增益平坦度 Gain Flatness		±2.5		dB
线性输出功率 Output P1dB	33			dBm
饱和输出功率 Output Psat	34			dBm
噪声系数 Noise Figure		7		dB
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage		28		V DC
直流电流 DC Supply Current		0.8		A
阻抗 Impedance	50			Ohms

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机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias	Feedthru capacitors	
尺寸 Size	60*60*11(Without heatsink) 150*140*72.5(With heatsink)	mm

绝对最大值 Absolute Maximum Ratings:

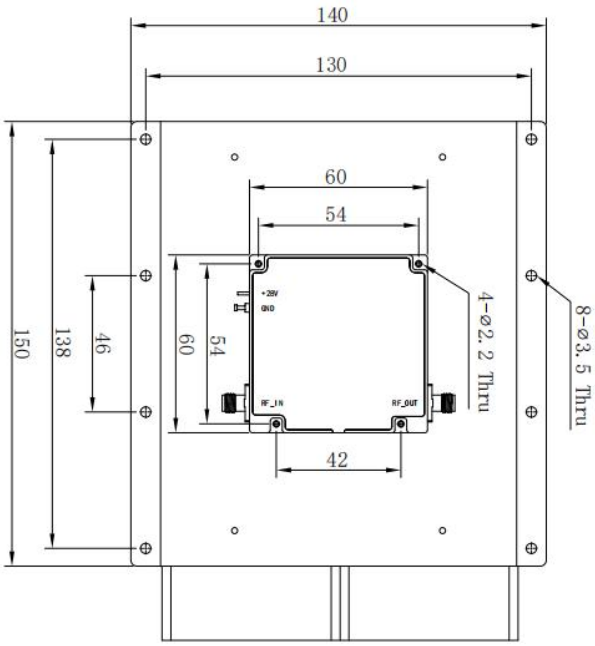
参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+29 V
输入功率 RF Input Power	+5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

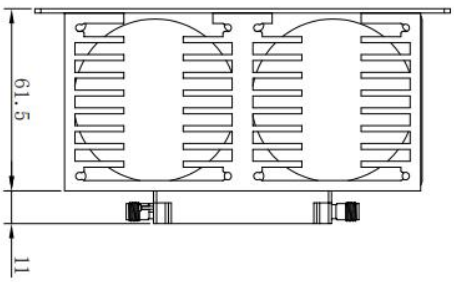


Simple 220V System
Available SAC option

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm







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

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温度环境 Environmental Conditions:

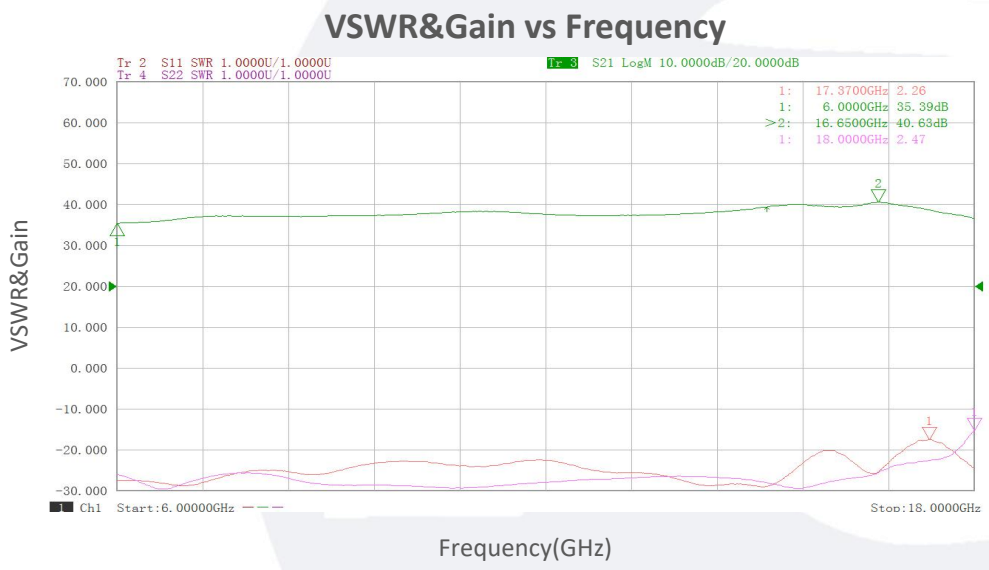
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+60	℃
存储温度 Non-operating Temperature*	-50		+70	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half 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
TLPA6G18G-30-34	Power amplifier 6-18GHz, Gain:30dB,Psat:34dBm,+28V DC,With Heatsink	Rev.1.2

典型曲线 Typical Performance Data:

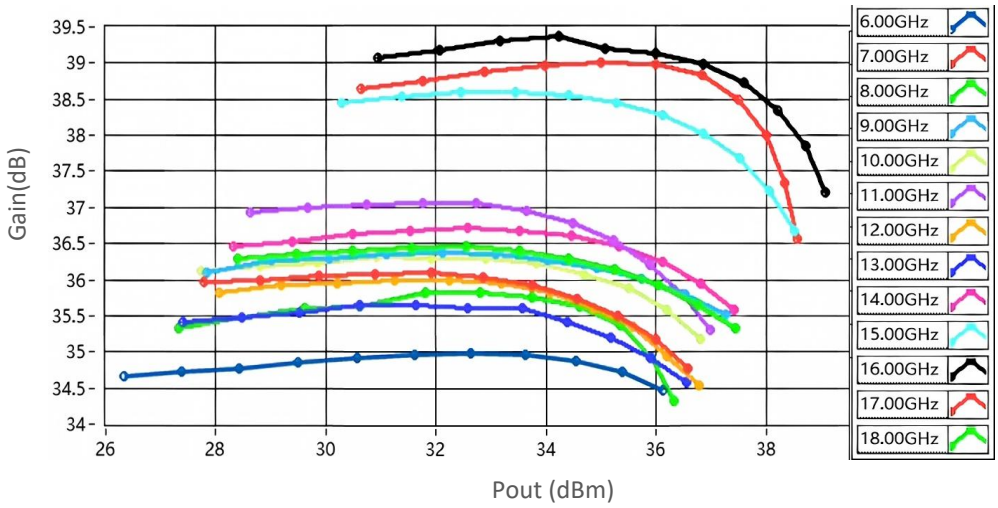


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

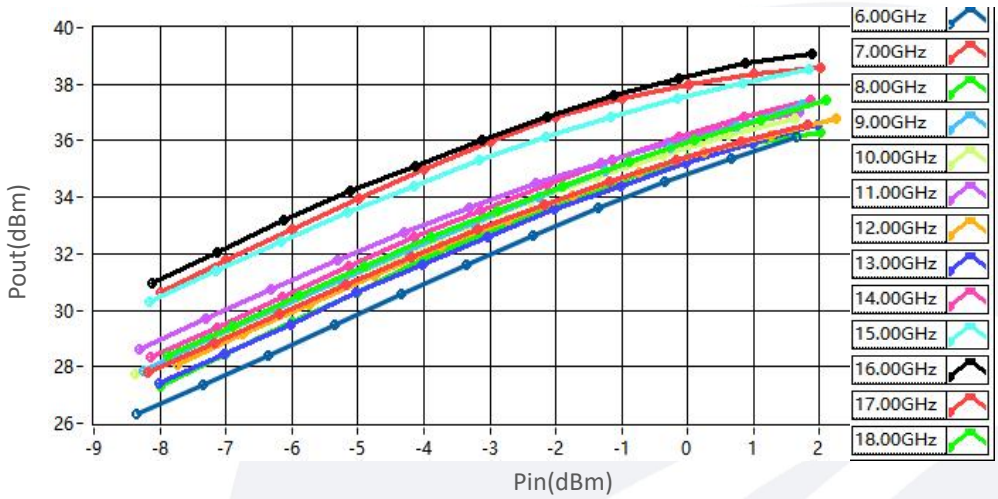
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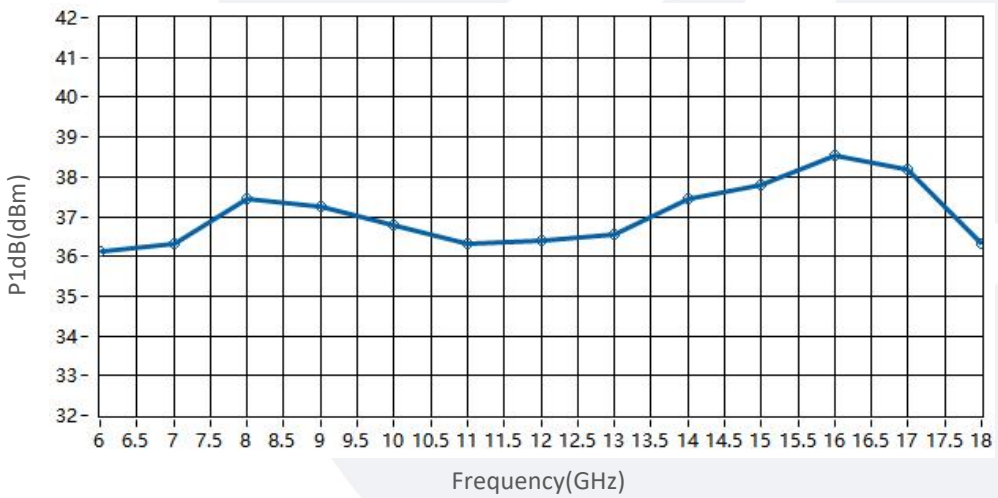
Gain vs Output Power



Pout vs Pin



P1dB vs Frequency

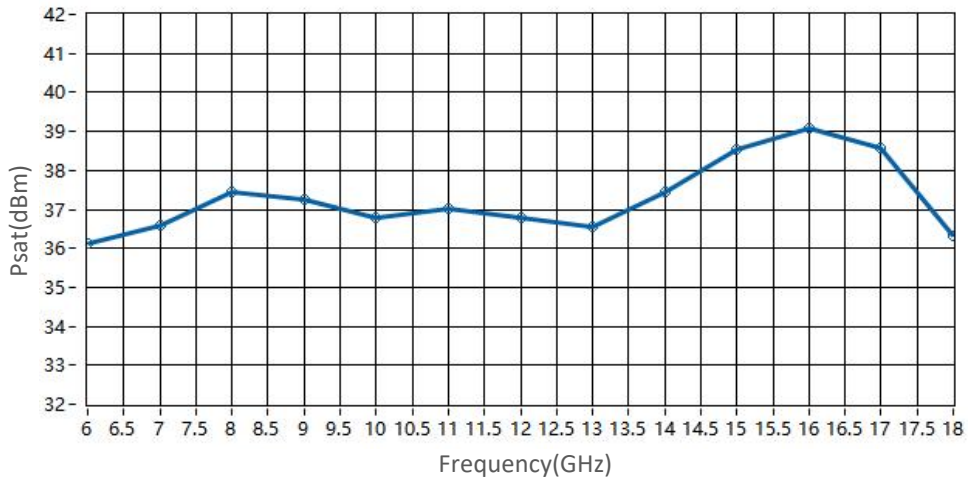


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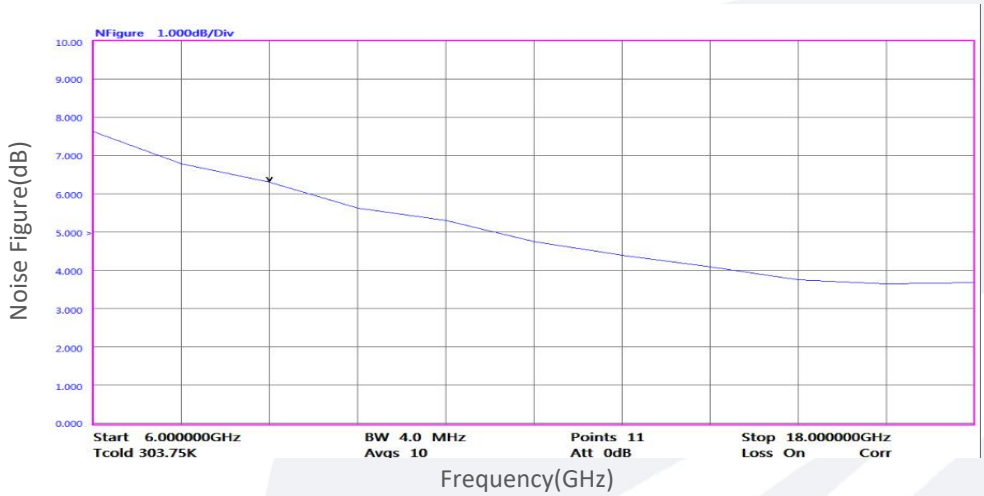
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典型曲线 Typical Performance Data:

Psat vs Frequency



Noise Figure vs Frequency



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