

Power Amplifier

6-18GHz /60dB Gain/53 dBm Psat

Model: TLPA6G18G-60-53

TLPA6G18G-60-53 is a power amplifier with a typical power gain of 60 dB and a Psat of 53 dBm across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +28 VDC/3500 W. The input port configuration offers coax adapter structure with SMA female and output port configuration offers coax adapter structure with WRD500.

Features:

- Ultra Wide Band: 6-18GHz
- Gain: 60dB Min
- Output Power Psat: 53dBm 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	60			dB
增益平坦度 Gain Flatness		±4.5	±5.0	dB
饱和输出功率 Output Psat	53			dBm
杂散 Spurious@Pout=50dBm			-55	dBc
二次谐波 2nd Harmonic@Pout=50dBm		-20	-15	dBc
直流电压 DC Voltage		28		V DC
功耗 Power Consumption			3500	W
阻抗 Impedance	50			Ohms

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-20		+40	°C
存储温度 Non-operating Temperature*	-45		+65	°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			

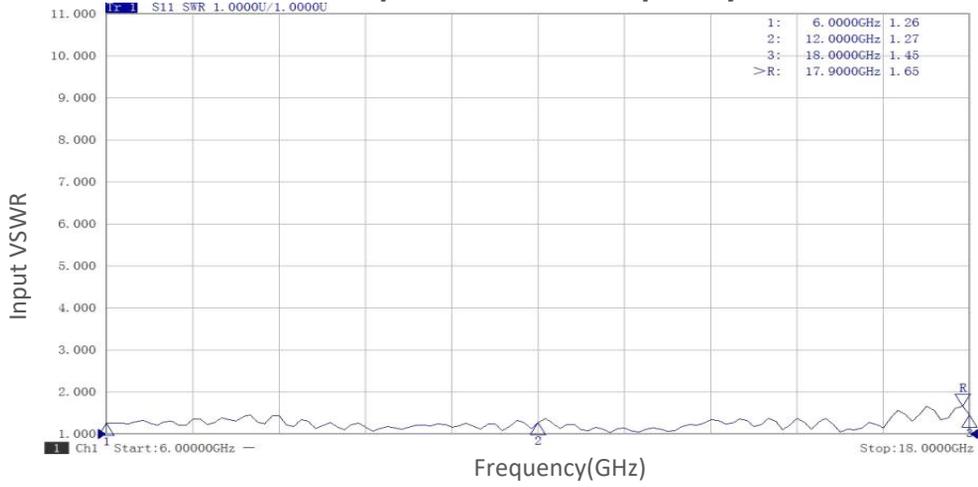
*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

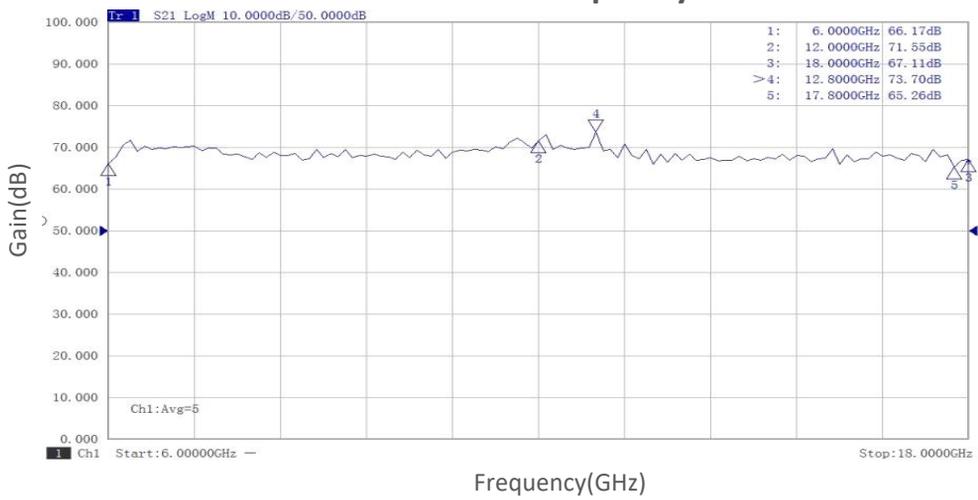
标准型号 Base Number	描述 Description	版本号 Revision
TLPA6G18G-60-53	Power amplifier 6-18GHz,Gain:60dB,Psat:53dBm,+28V DC,Built in Fan Cooling .	Rev.1.1

典型曲线 Typical Performance Data:

Input VSWR vs Frequency



Gain vs Frequency

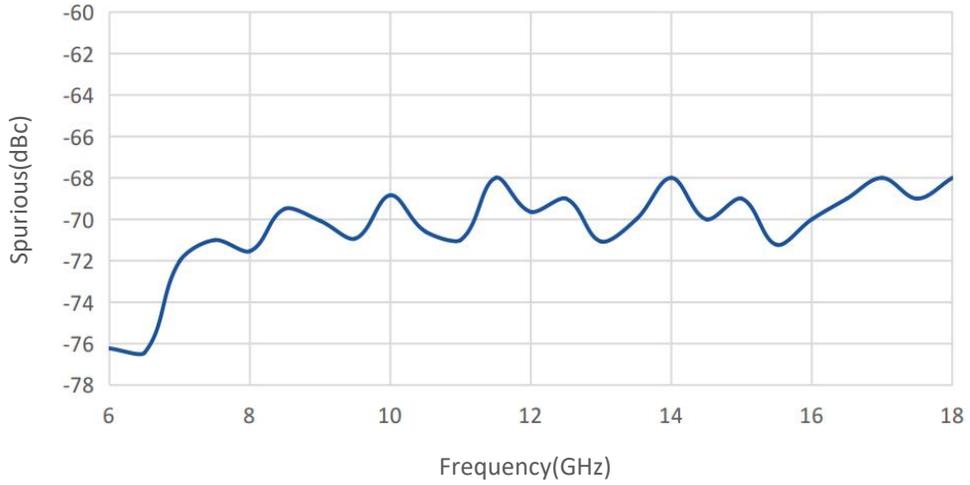


Pout vs Frequency

PiutdB(dBm)

典型曲线 Typical Performance Data:

Spurious vs Frequency



Harmonic vs Frequency

