

Model:TLPA10M1G-33-33
Power Amplifier
10MHz-1GHz, Gain:33dB, Psat:33dBm
Feature:

- Ultra Wide Band: 10MHz-1GHz
- Gain: 33dB Min
- Psat Output Power: 33 dBm 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	0.01-1			GHz
增益 Gain	33	35		dB
增益平坦度 Gain Flatness		±2	±3	dB
饱和输出功率 Output Psat	33	34		dBm
谐波抑制 Harmonics@Pout=33dBm		-15		dBc
输入驻波 Input VSWR		1.5	2	:1
直流电压 DC Voltage		15	16	V DC
直流电流 DC Supply Current		0.2	1	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	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	76*48*15	mm
重量 Weight	150	g

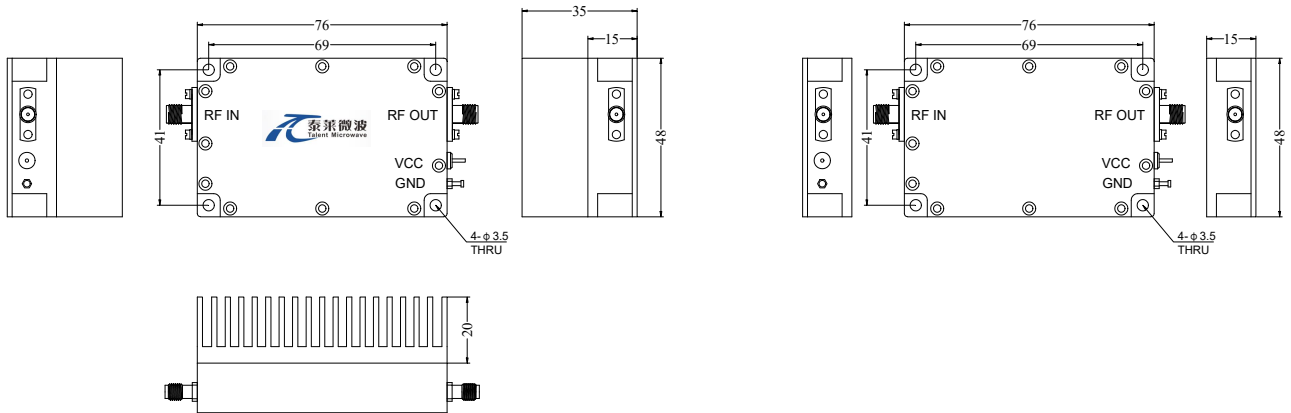
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	16 V
输入功率 RF Input Power	5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


 Available 220V System
 Benchtop Amplifier

外形尺寸 Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

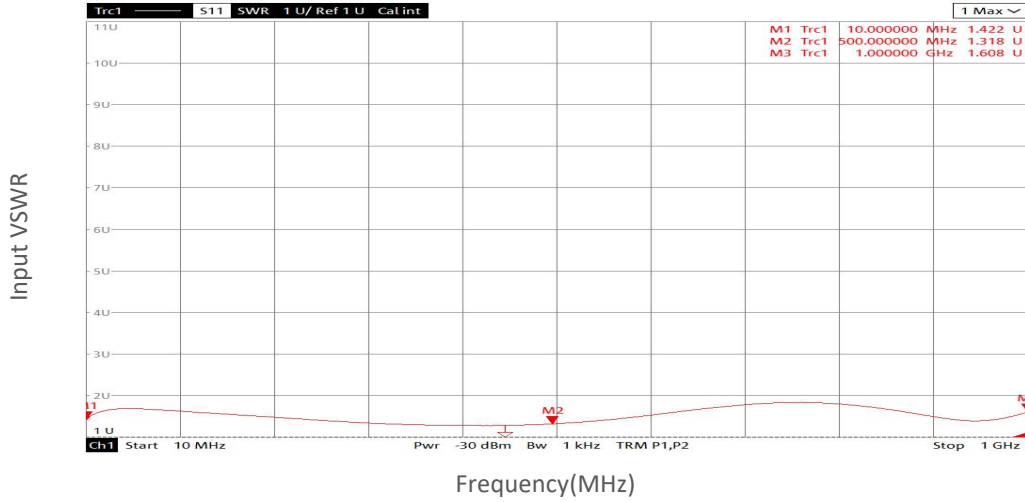
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

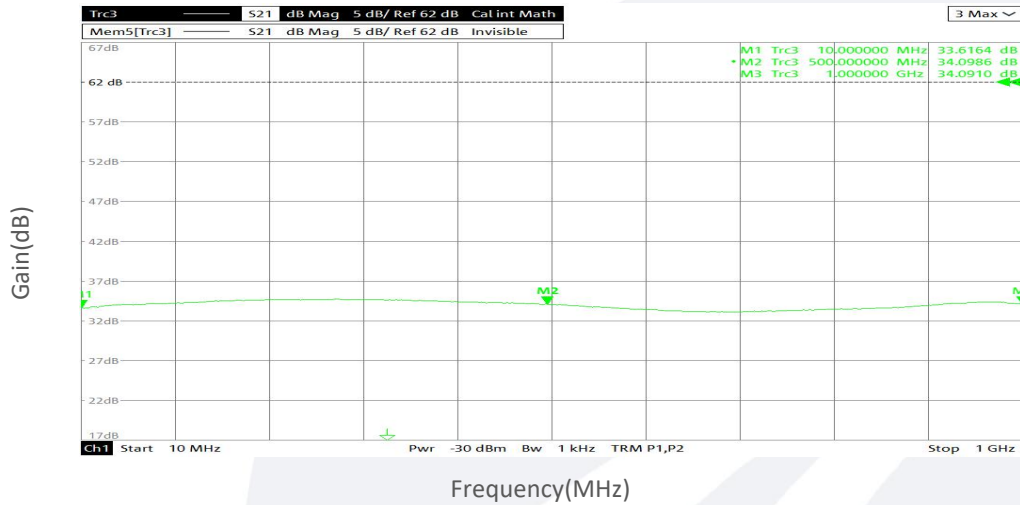
标准型号 Part Number	描述 Description	版本号Revision
TLPA10M1G-33-33	Power amplifier 10MHz-1GHz,Gain:33dB,Psat:33dBm,15V DC, Without Heatsink	Rev.1.0
TLPA10M1G-33-33-HS	Power amplifier 10MHz-1GHz,Gain:33dB,Psat:33dBm,15V DC, With Heatsink	Rev.1.0

典型曲线 Typical Performance Data:

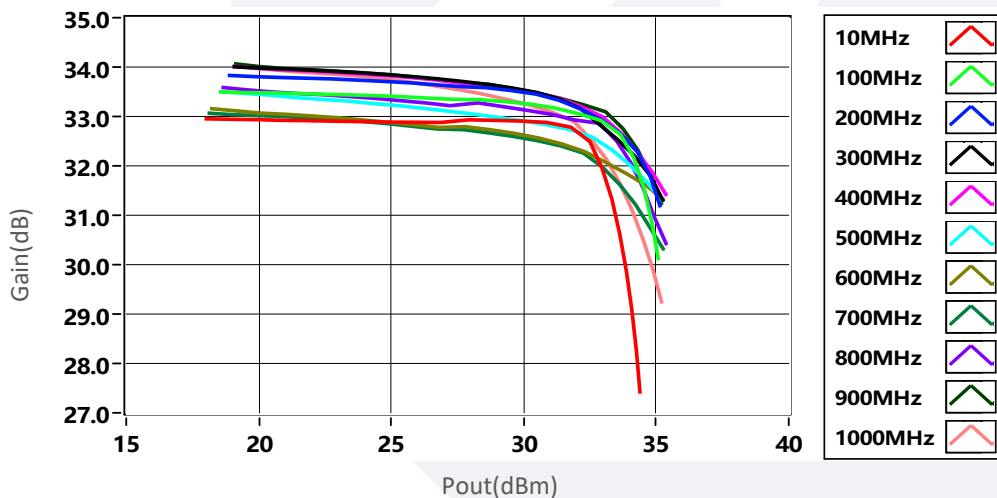
Input VSWR vs Frequency



Gain vs Frequency

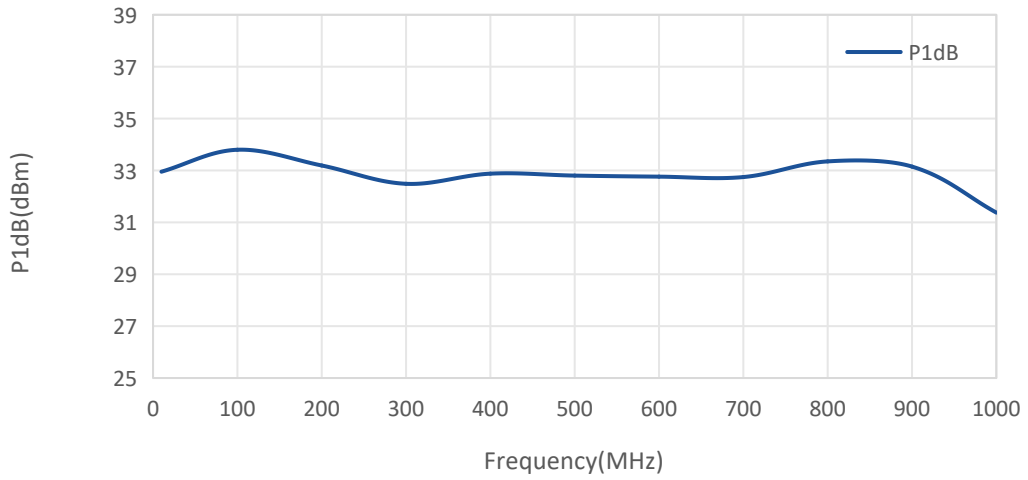


Gain vs Output Power

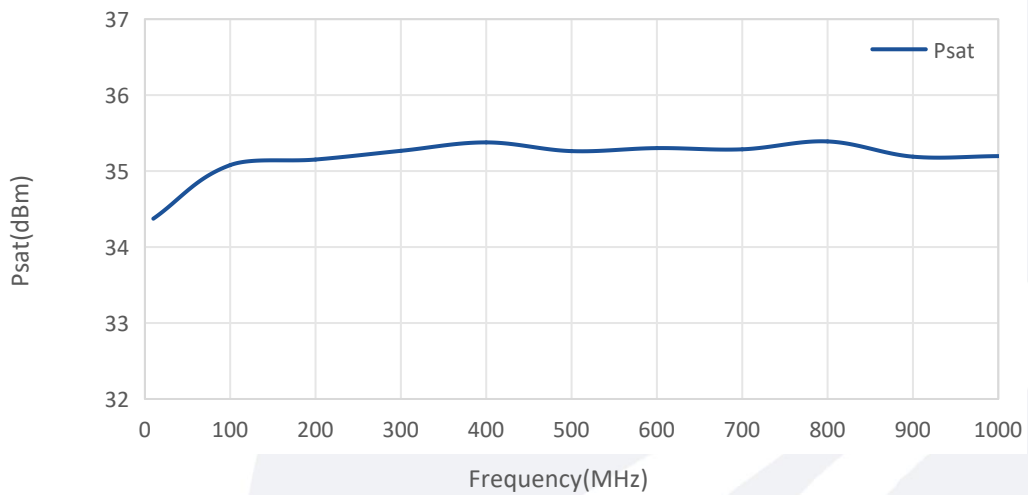


典型曲线 Typical Performance Data:

P1dB vs Frequency



Psat vs Frequency



Harmonics vs Frequency

