

Model:TLPA10M1000M-38-36

Power Amplifier

10-1000MHz,Gain:38dB,Psat:36dBm

Feature:

- Ultra Wide Band: 10-1000MHz
- Gain:38dB Min
- Psat Output Power:36dBm Typ
- 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	10-1000			MHz
增益 Gain	36	38	39	dB
增益平坦度 Gain Flatness		±1	±1.5	dB
线性输出功率 Output P1dB	35	36		dBm
饱和输出功率 Output Psat	36	37		dBm
输入驻波 Input VSWR		1.5	2	:1
直流电压 DC Voltage		+28		V DC
直流电流 DC Supply Current		1.5		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/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	90*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	+30V
输入功率 RF Input Power	3dBm
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

温度环境 Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

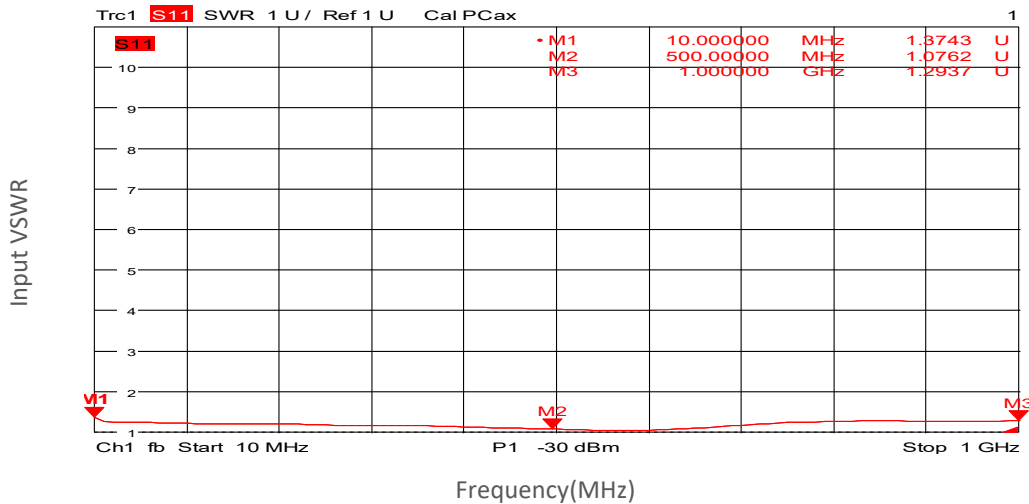
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half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

订货信息 Ordering Information:

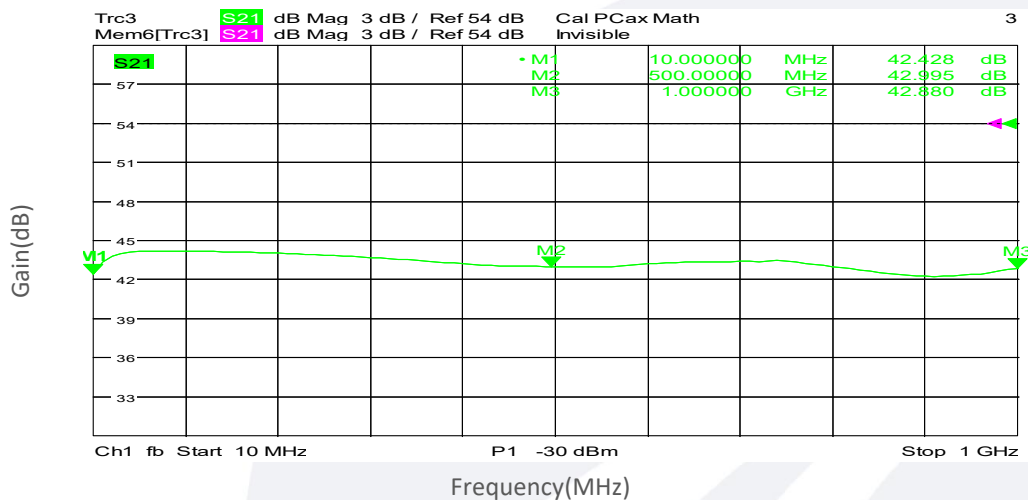
标准型号 Part Number	描述 Description	版本号Revision
TLPA10M1000M-38-36	Power amplifier 10-1000MHz,Gain:38dB,Psat:36dBm,+28V DC,Without Heatsink.	Rev.1.0
TLPA10M1000M-38-36-HS	Power amplifier 10-1000MHz,Gain:38dB,Psat:36dBm,+28V DC,With Heatsink.	Rev.1.0

典型曲线 Typical Performance Data:

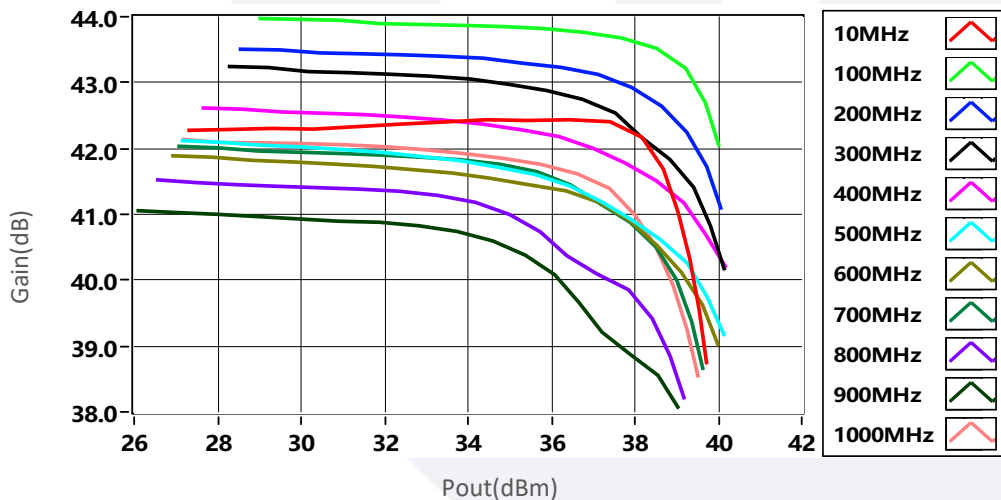
Input VSWR vs Frequency



Gain vs Frequency

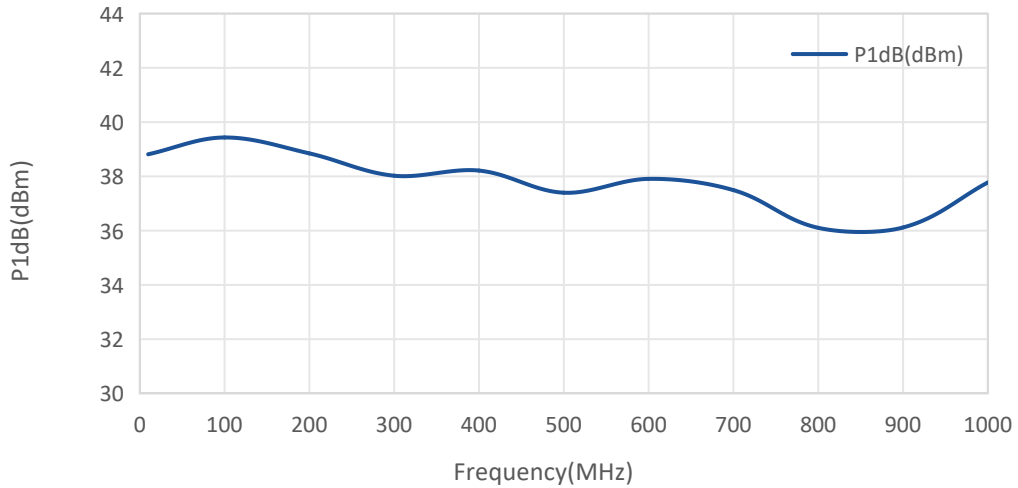


Gain vs Output Power

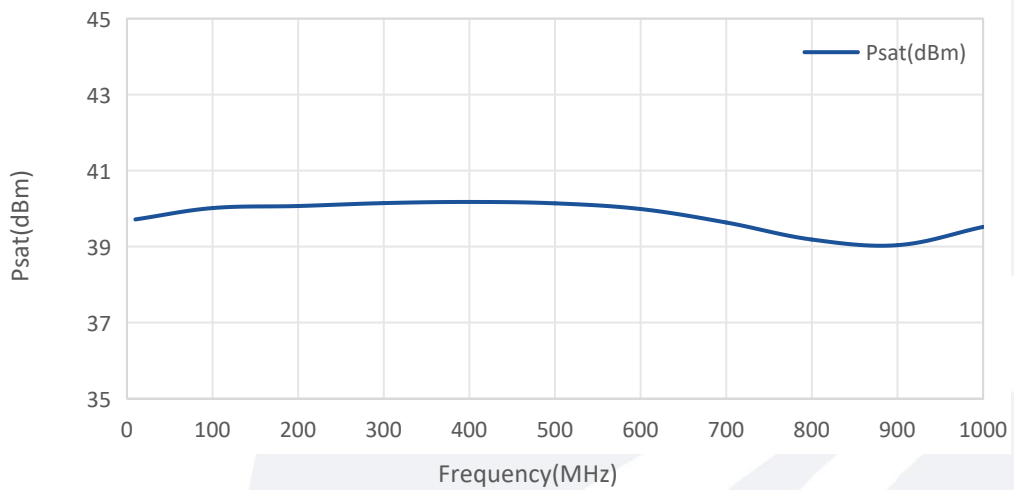


典型曲线 Typical Performance Data:

P1dB vs Frequency



Psat vs Frequency



Harmonics vs Frequency

