泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

Model:TLPA20M6G-35-38

Power Amplifier 0.02-6GHz,Gain:35dB,Psat:38dBm

Feature:

- Ultra Wide Band: 0.02-6GHz
- Gain:33dB Min
- Psat Output Power:36dBm 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		0.02-6		GHz
增益 Gain	33	35		dB
增益平坦度 Gain Flatness		±3	±5	dB
线性输出功率 Output P1dB	35	37		dBm
饱和输出功率 Output Psat	37	38		dBm
谐波 Harmonics@Pout=37dBm			-10	dBc
输入驻波 Input VSWR		1.5	2	:1
直流电压 DC Voltage	+26	+28	+30	V DC
直流电流 DC Supply Current		0.5	1.7	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	100*86*40	mm
重量 Weight	250	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	5dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System Benchtop Amplifier

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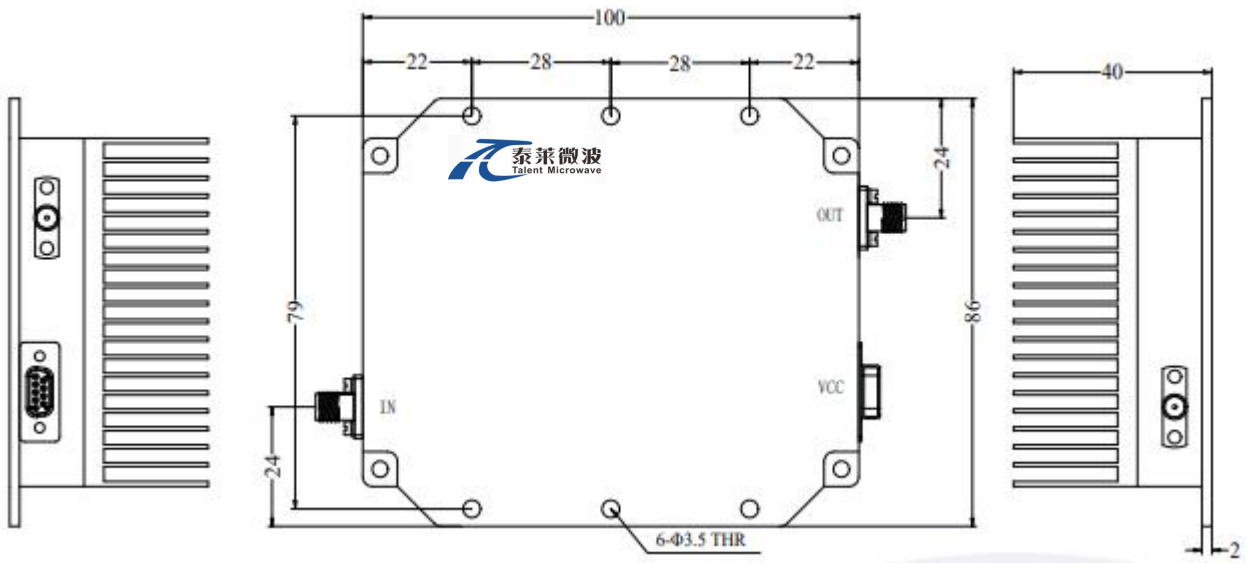
外形尺寸Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

直流供电连接器 J3OJ-9ZKW-J(配J30J-9TJL)

引脚编号	标识	类型	功能详细说明
1	功放使能	输入	高电平（或悬空）打开功放，短接到地关闭功放。
2	GND	输入	供电负极
3	GND	输入	供电负极
4	GND	输入	供电负极
5	GND	输入	供电负极
6	+28V	输入	供电正极 +26.0-30.0VDC
7	+28V	输入	供电正极 +26.0-30.0VDC
8	+28V	输入	供电正极 +26.0-30.0VDC
9	+28V	输入	供电正极 +26.0-30.0VDC

备注：TTL为5V

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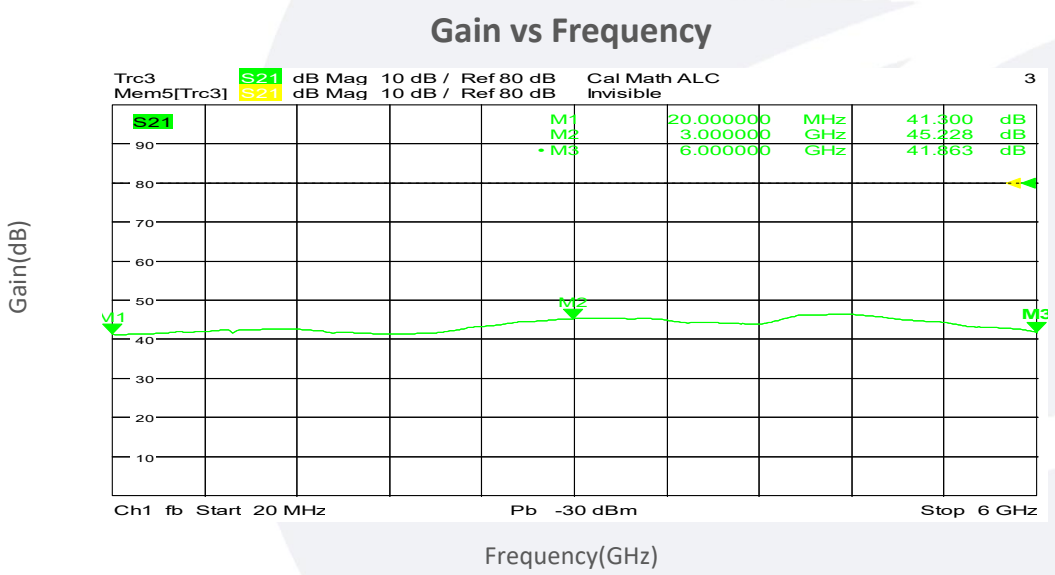
温度环境 Environmental Conditions:

参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
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
TLPA20M6G-35-38	Power amplifier 0.02-6GHz,Gain:35dB,Psat:38dBm,+28V DC,Without Heatsink.	Rev.1.0
TLPA20M6G-35-38-HS	Power amplifier 0.02-6GHz,Gain:35dB,Psat:38dBm,+28V DC,With Heatsink.	Rev.1.0

典型曲线 Typical Performance Data:



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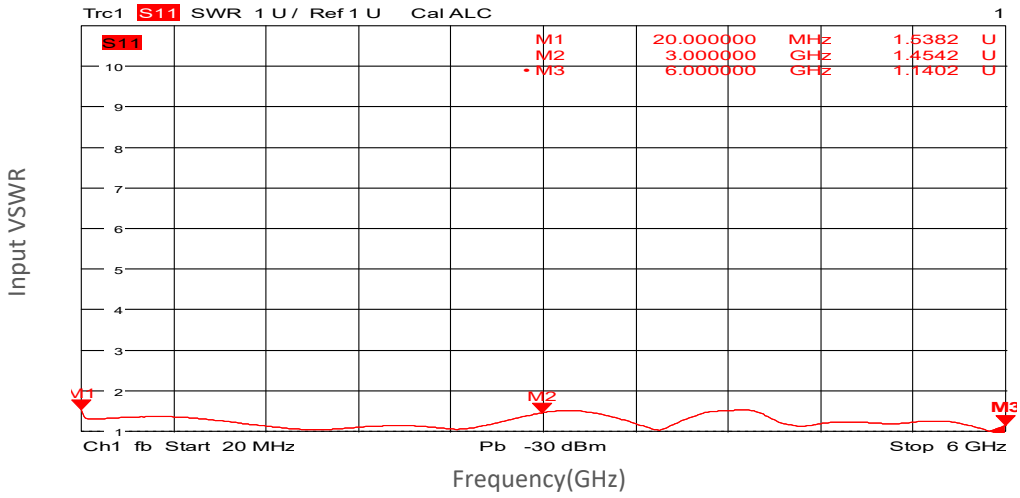
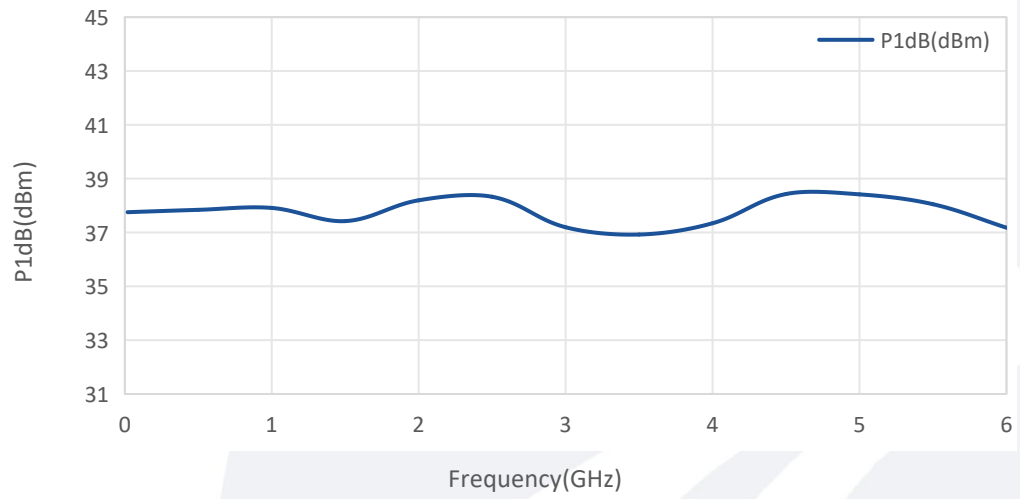
典型曲线 Typical Performance Data:

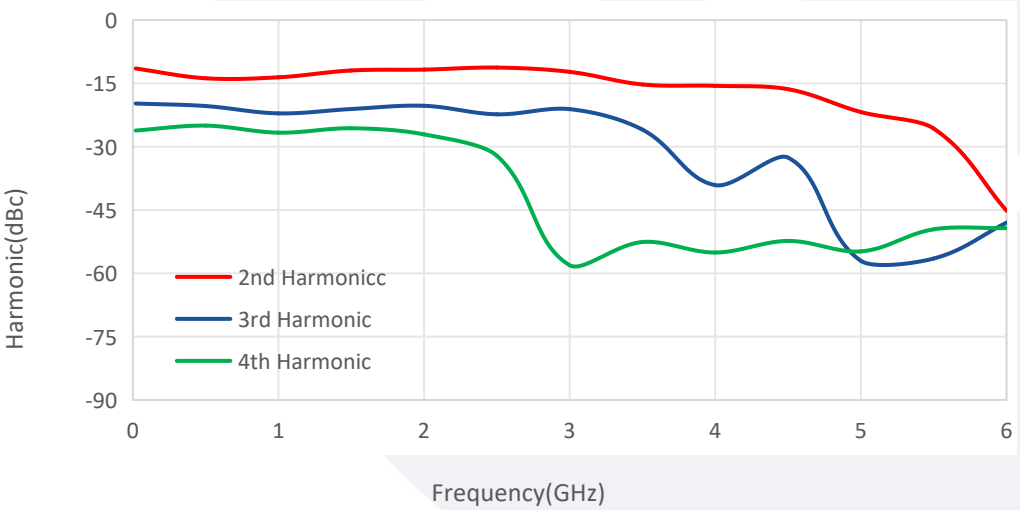
Input VSWR vs Frequency



P1dB vs Frequency



Harmonic vs Frequency



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