

TURPA100K400M-5252

0.1-400MHz,Gain:52dB,Psat:52dBm

Feature:

- Ultra Wide Band: 0.1-400MHz
- Gain: 52 dB Typ
- Psat Output Power: 52 dBm 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	0.1-400			MHz
小信号增益 Small Signal Gain	49	52		dB
增益平坦度 Gain Flatness		±3	±5	dB
线性输出功率 Output P1dB	49	50		dBm
饱和输出功率 Output Psat	50	52		dBm
谐波 Harmonic@Pout=50dBm		-12		dBC
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage	+26	+28	+30	V DC
直流电流 DC Supply Current		10	20	A
阻抗 Impedance	50			Ohms

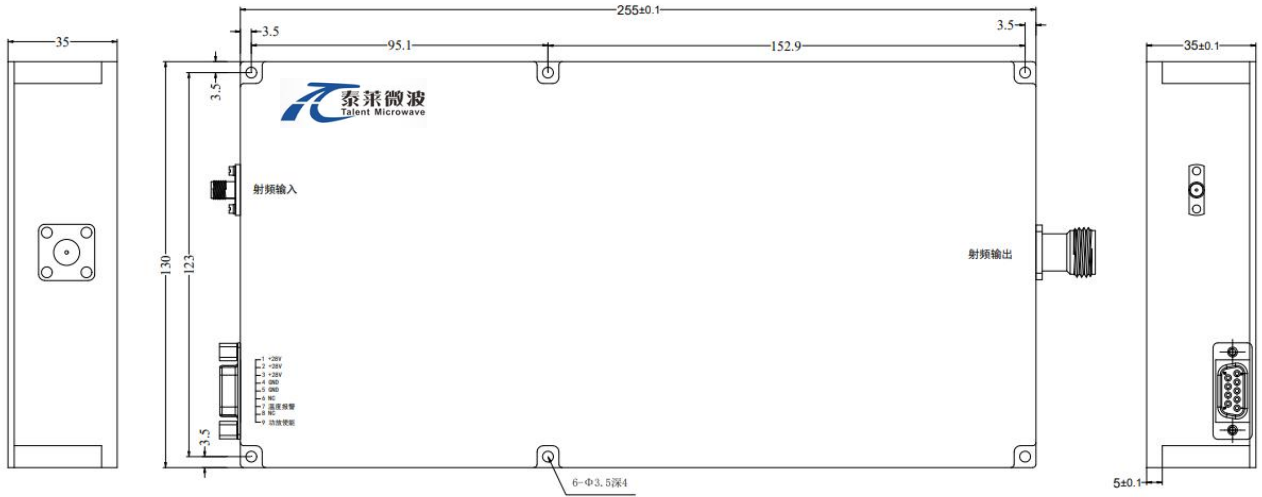
机械特性 Mechanical Specifications:

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female/N Female	
直流偏置 DC Bias	DB9	
尺寸 Size	255*130*35	mm
重量 Weight	2500	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
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Unit: mm



***Heat Sink Required During Operation



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)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

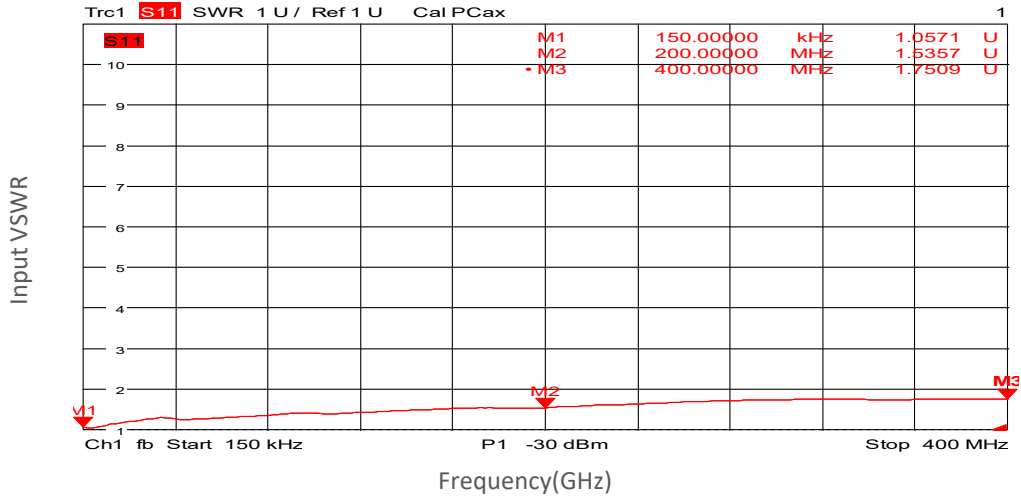
订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号Revision
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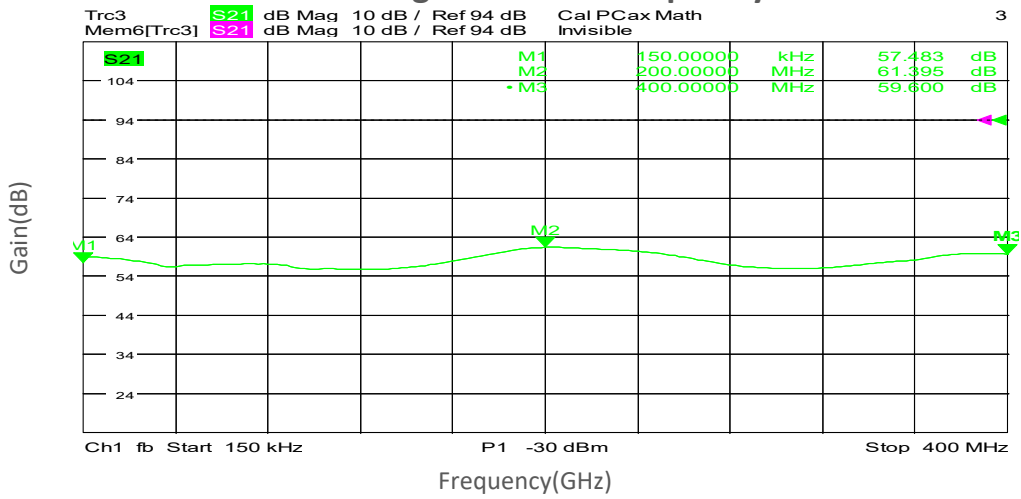
DC Interface Connector D-sub, 9-Pin, Female

Pin #	Name	Function
1	+28V	+26.0-30.0VDC
2	+28V	+26.0-30.0VDC
3	+28V	+26.0-30.0VDC
4	GND	Ground
5	GND	Ground
6	NC	Not connected
7	Over Temperature	When the temperature of the case exceeds 85 °C, the power amplifier will turn off and this pin will be pulled high. If the temperature of case drops to 70 °C, the power amplifier will return to normal operation, and this pin will be pulled low.
8	NC	Not connected
9	EN	Amplifier Enable: TTL High (5V) (Internally Pulled-High) Amplifier Disable: Short to ground

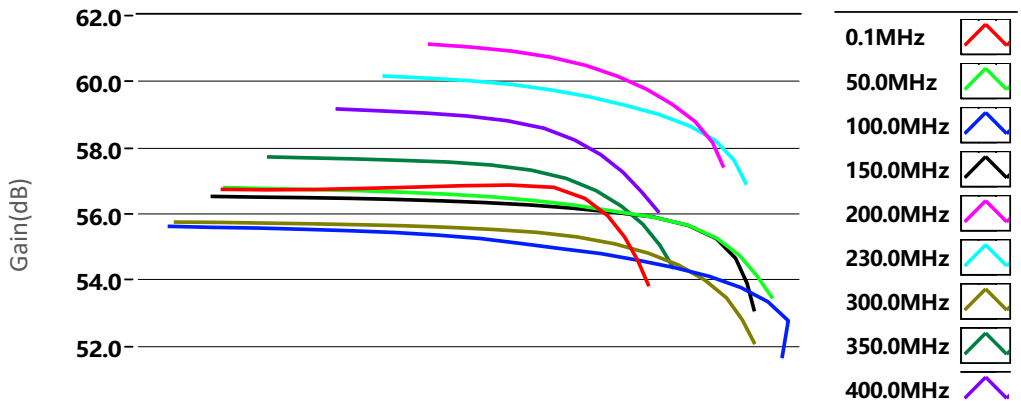
Input VSWR vs Frequency



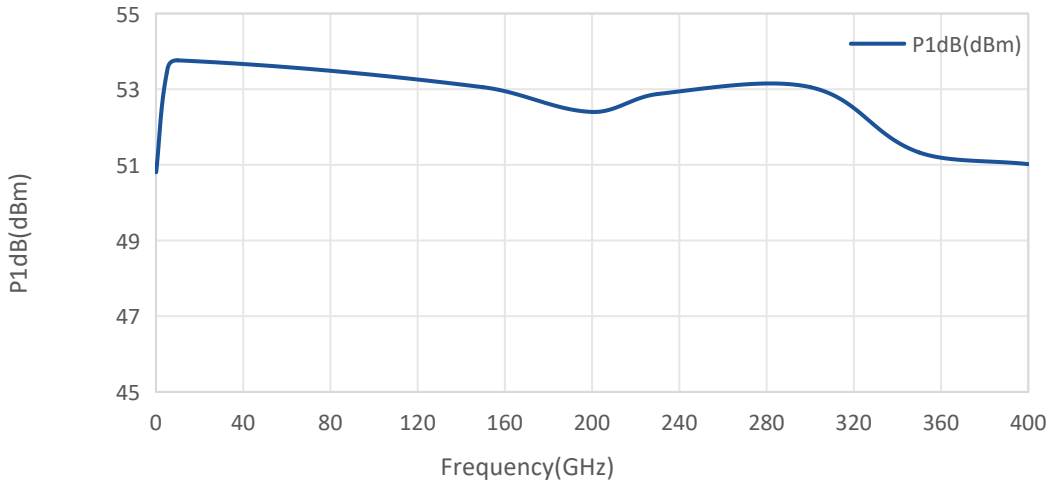
Small Signal Gain vs Frequency



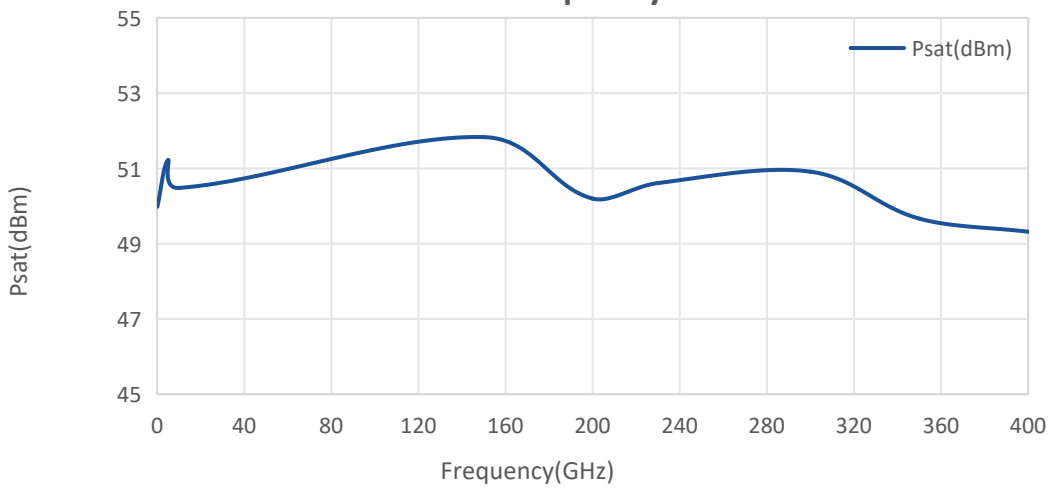
Gain vs Output Power



P1dB vs Frequency



Psat vs Frequency



Harmonics vs Frequency

