

## TURPA10M1G-3540

## 10MHz-1GHz, Gain:35dB, Psat:40dBm

### Feature:

- Ultra Wide Band: 10MHz-1GHz
- Gain: 35dB Typ
- Psat Output Power: 40 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	0.01-1			GHz
增益 Gain	32	35		dB
增益平坦度 Gain Flatness		±2	±3	dB
线性输出功率 Output P1dB	37	38		dBm
饱和输出功率 Output Psat	39	40		dBm
谐波抑制 Harmonics			-10	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		0.2	1.5	A
阻抗 Impedance	50			Ohms

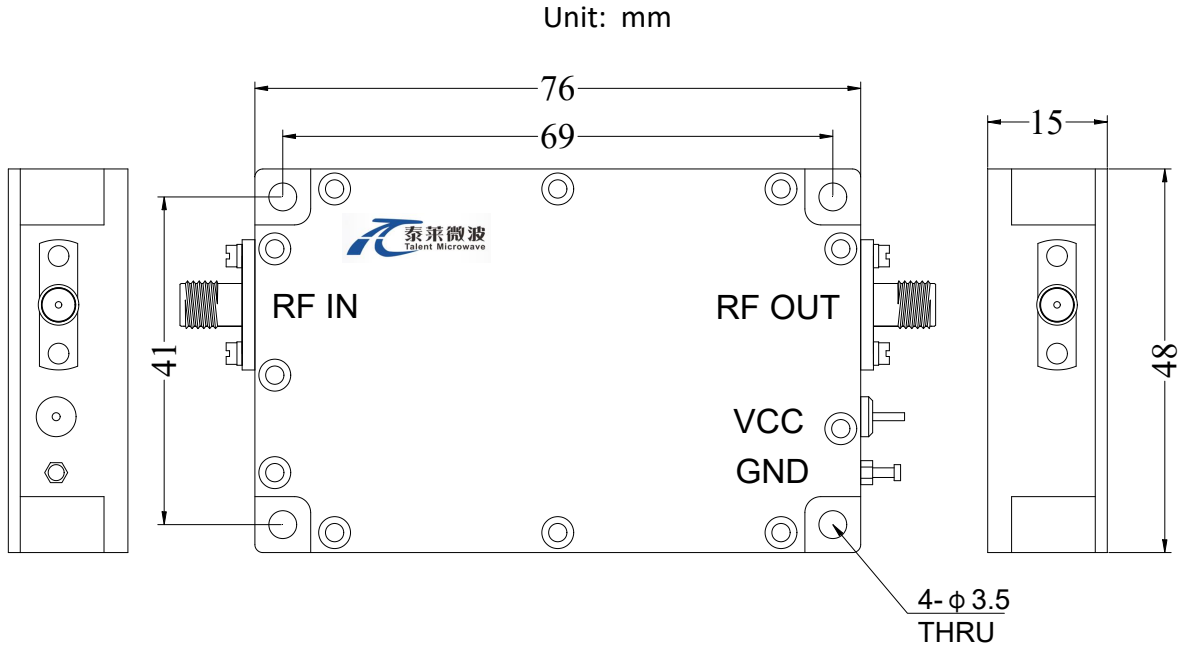
### 机械特性 Mechanical Specifications:

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	76*48*15	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	10 dBm





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



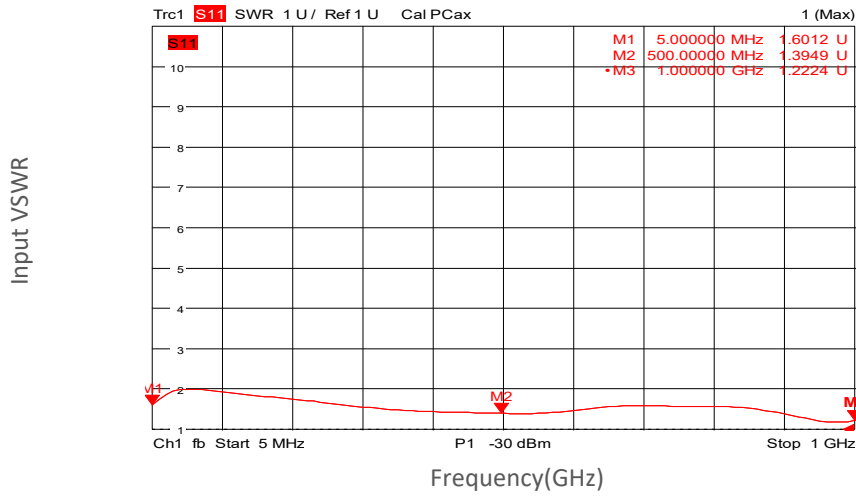
**温度环境 Environmental Conditions:**

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)	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			

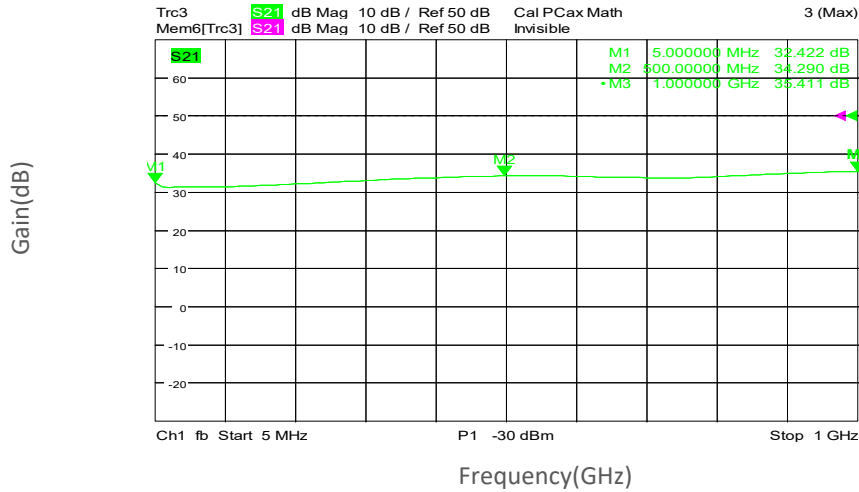
**订货信息 Ordering Information:**

标准型号 Part Number	描述 Description	版本号Revision
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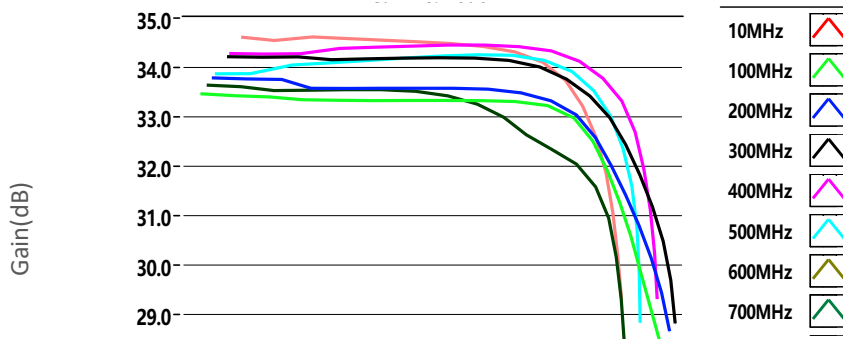
## Input VSWR vs Frequency



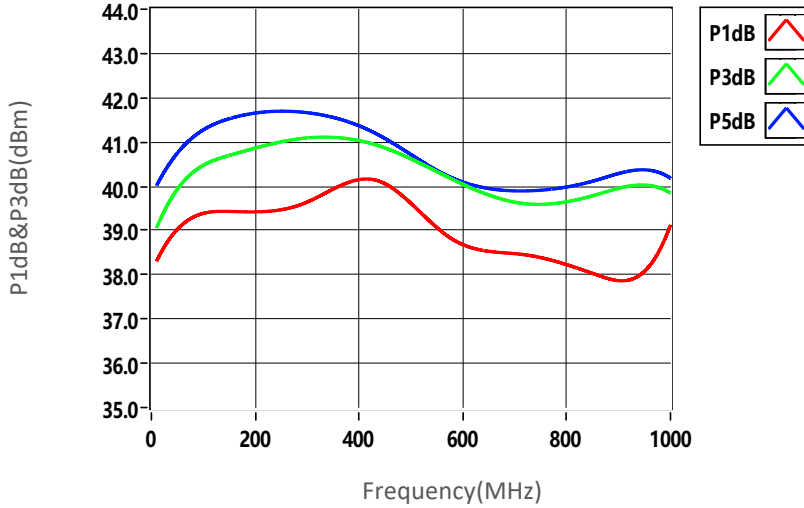
## Gain vs Frequency



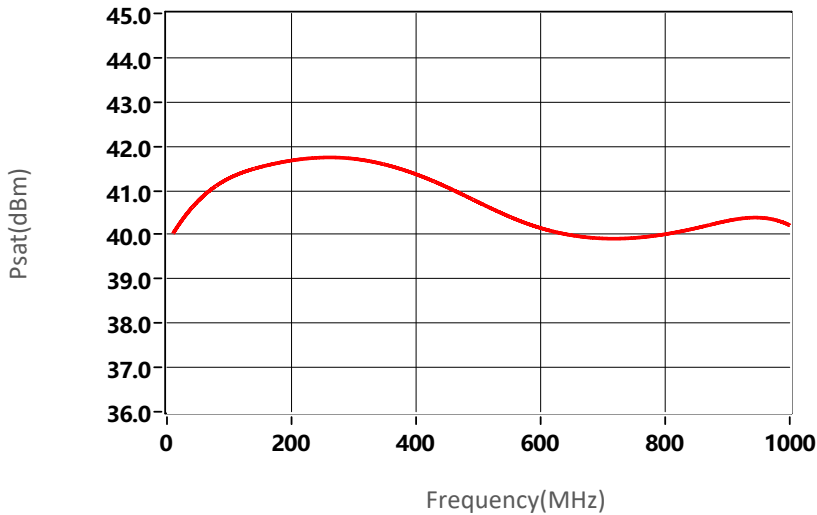
## Gain vs Output Power



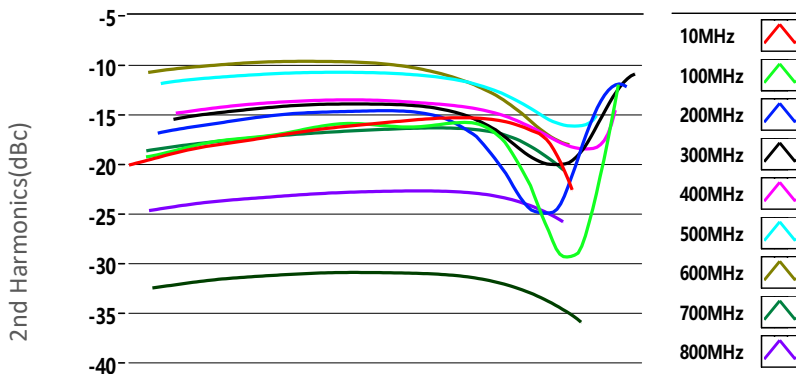
### P1dB&P3dB vs Frequency



### Psat VS Frequency



### 2nd Harmonics VS Output Power



## 3rd Harmonics VS Output Power

