

TURPA0.05G12G-3030

0.05-12GHz,Gain:33dB,P1dB:30dBm

Feature:

- Ultra Wide Band: 0.05-12GHz
- Gain: 30dB Min
- Psat Output Power: 31dBm 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	0.05-12			GHz
增益 Gain	30	33		dB
增益平坦度 Gain Flatness		±3		dB
线性输出功率 Output P1dB	30			dBm
饱和输出功率 Output Psat		31		dBm
二次谐波 Second Harmonic		-20		dBc
杂散 Spurious		-60		dBc
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
噪声系数 Noise Figure		8		dB
直流电压 DC Voltage		+24		V DC
直流电流 DC Supply Current		790	1000	mA
阻抗 Impedance	50			Ohms

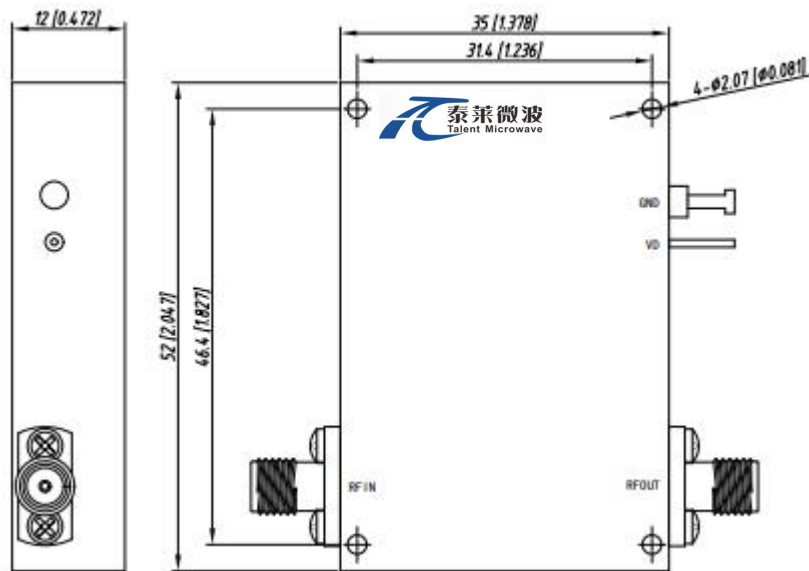
机械特性 Mechanical Specifications:

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	35*52*12	mm
重量 Weight	50	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:



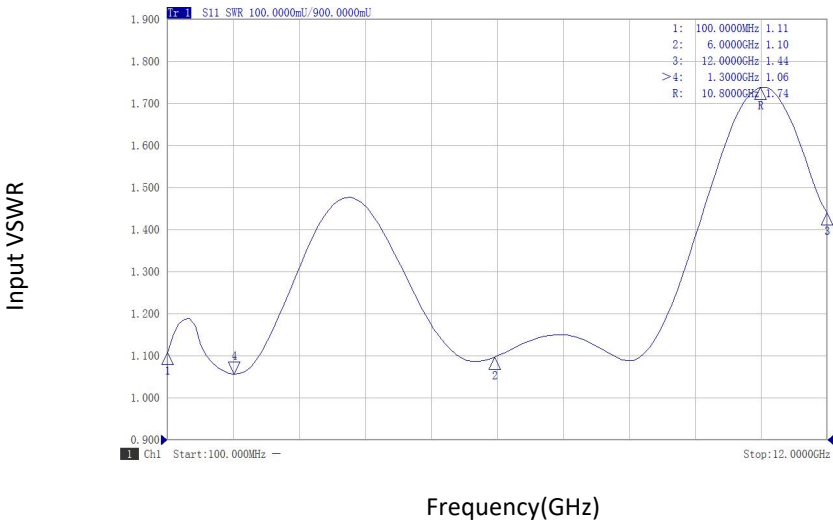
OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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	100%RH at 35℃, 95%RH at 40℃			%
海拔 Altitude	50,000			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			

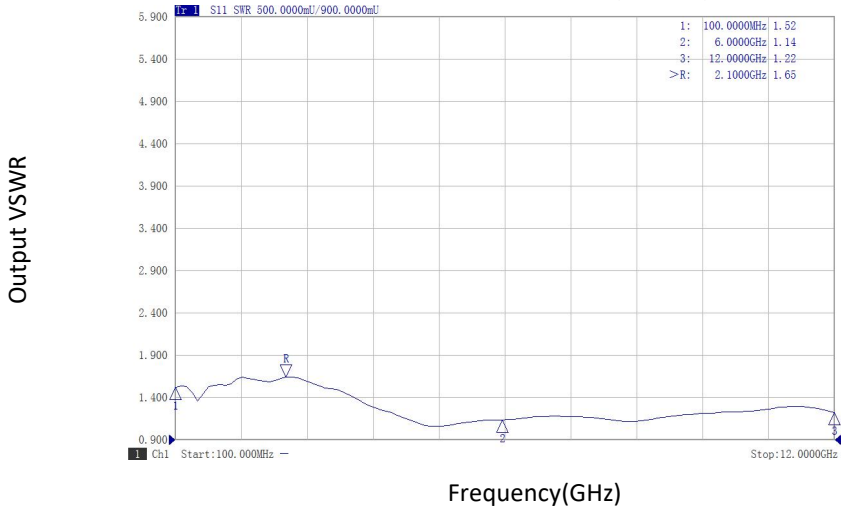
订货信息 Ordering Information:

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



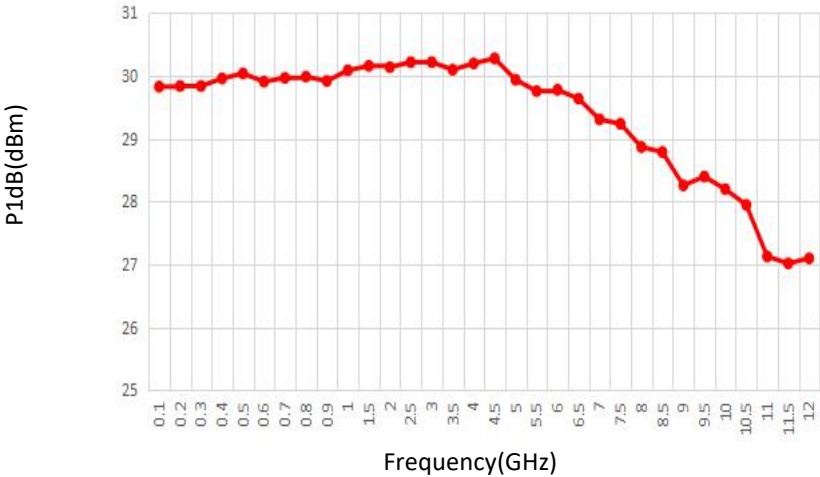
Output VSWR vs Frequency



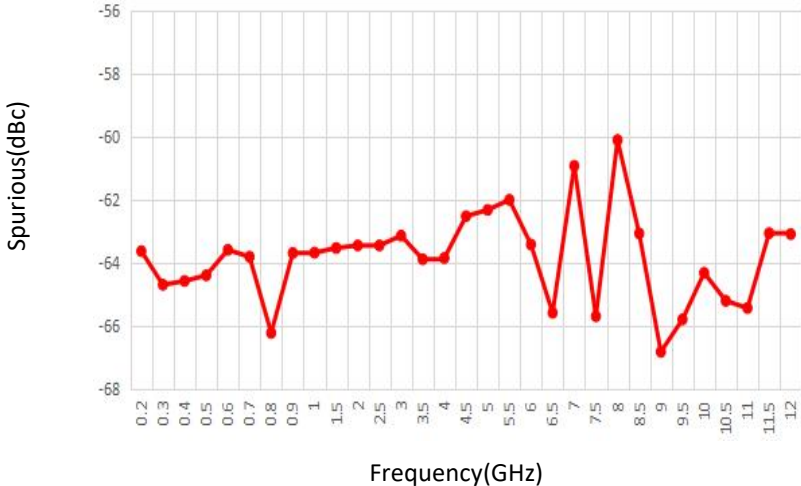
Gain vs Frequency

Gain(dB)

P1dB vs Frequency



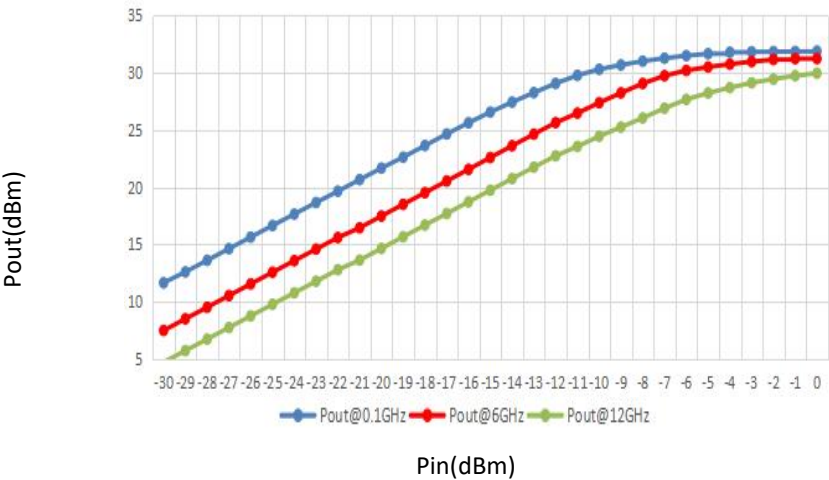
Spurious VS Frequency



Harmonics VS Frequency

Harmonics(dBc)

Pout@Pin



Pout@Equal_Pin

