泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
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Voltage Controlled Attenuator

2-18 GHz/50dB Attenuation Range

Model: TLVA2G18G-50-10

The TLVA2G18G-50-10 is an broadband voltage controlled electrical attenuator operating from2 to 18 GHz. The attenuator exhibits 2 dB typical insertion loss and 0 to 50 dB nominal attenuation range across the frequency range of 2 to18 GHz while applying 0 to +13 V DC control voltage. The RF input and output ports are female SMA coax connectors.

Features:

- Frequency range: 2-18GHz
- Attenuation Range: 50 dB Typ
- Insertion Loss: 2 dB Typ
- High Attenuator Accuracy

Applications:

- Radar Systems
- Communication Systems
- Testing Equipment

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	2		18	GHz
插损 Insertion Loss		2	3	dB
衰减范围 Attenuation Range	50			dB
输入三阶交调 Input IP3		43		dBm
输入驻波 Input VSWR		1.6	2	:1
输出驻波 Output VSWR		1.6	2	:1
切换时间 Swtich Speed			2.5	us
最大输入功率 Input Max Power		30		dBm
控制电压 Control Voltage	0	10	13	V DC
直流电流 DC Supply Current		30		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	
控制连接器 Control Connector	Pin	
尺寸 Size	14*13*7	mm
材质 Material	Copper	

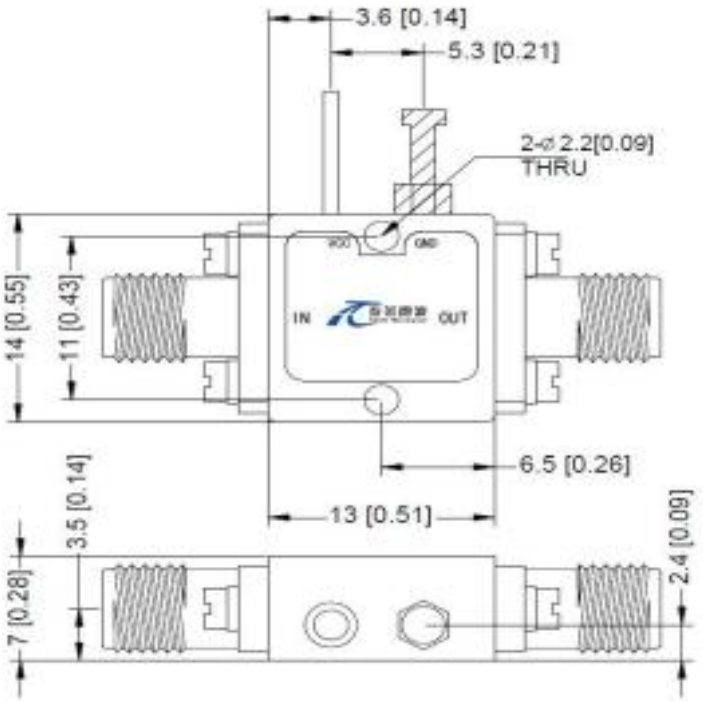
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绝对最大值 Absolute Maximum Ratings :

参数 Parameter	指标 Value	单位 Units
供电偏置电压 Supply Bias Voltage	TBD	
射频输入功率 RF Input Power	30 dBm	
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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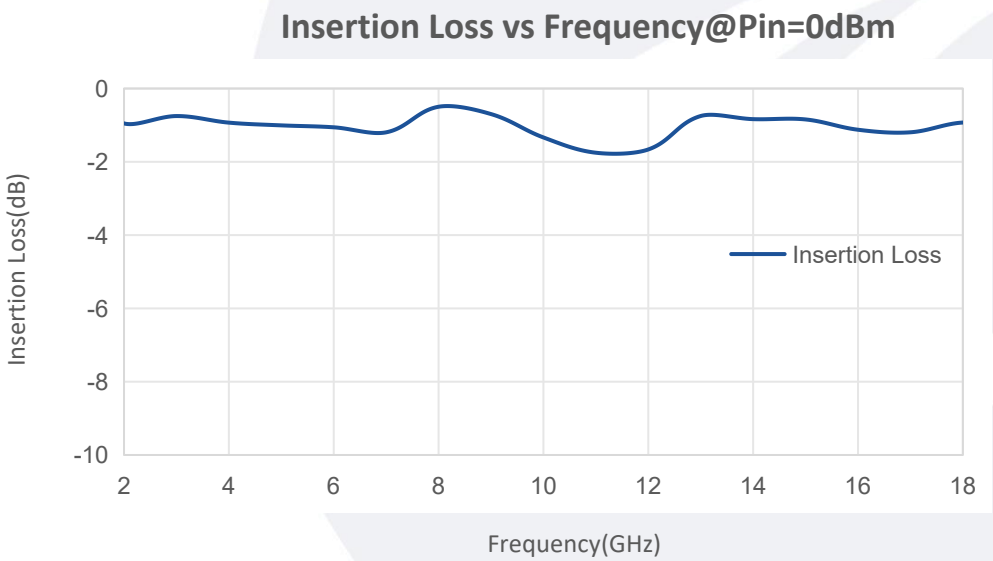
温度环境 Environmental Conditions:

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	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 Base Number	描述 Description	版本号 Revision
TLVA2G18G-50-10	Voltage Controlled Attenuator 2-18 GHz, 50 dB Range,SMA Female	Rev.1.1

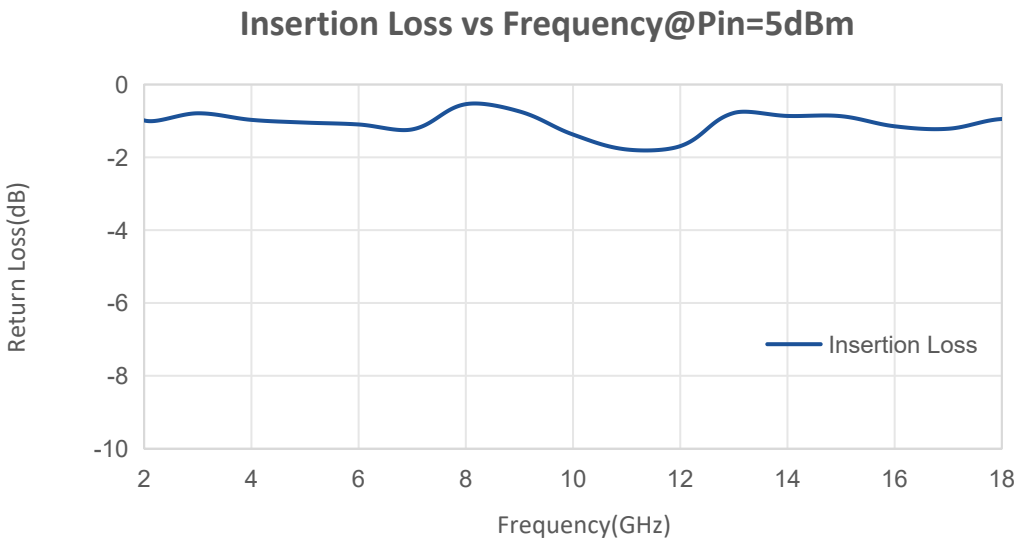
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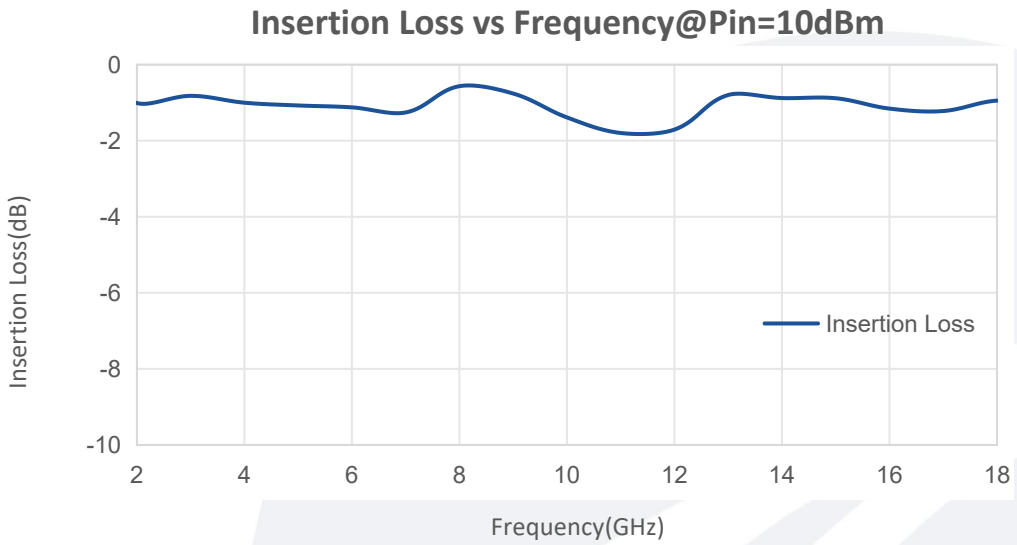


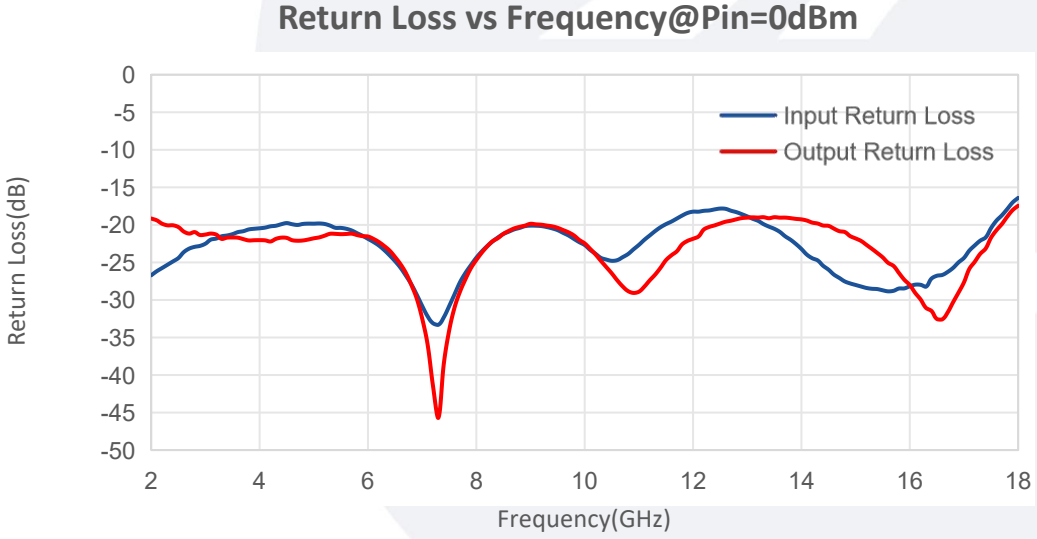
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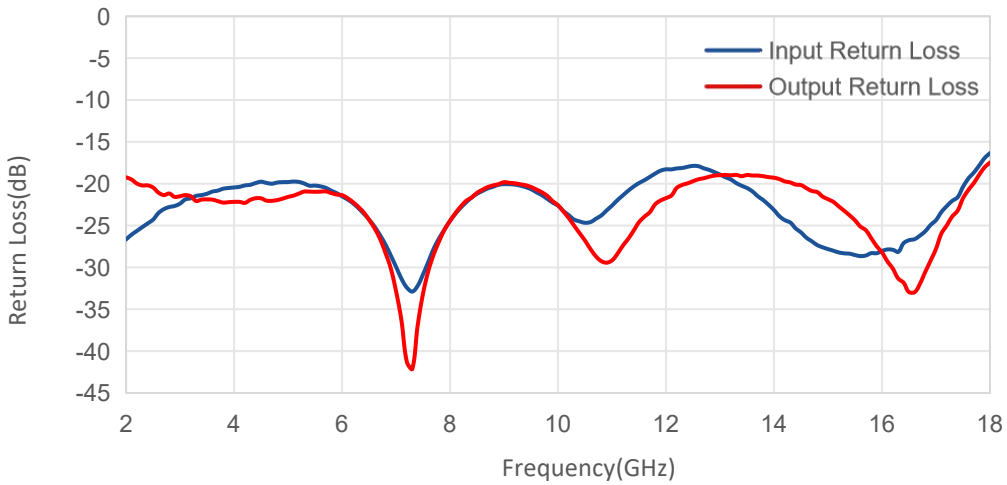


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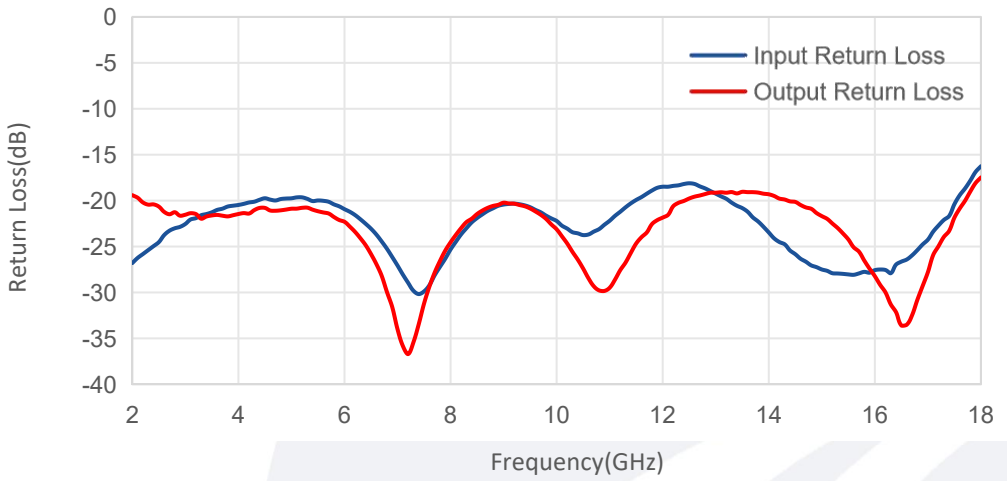
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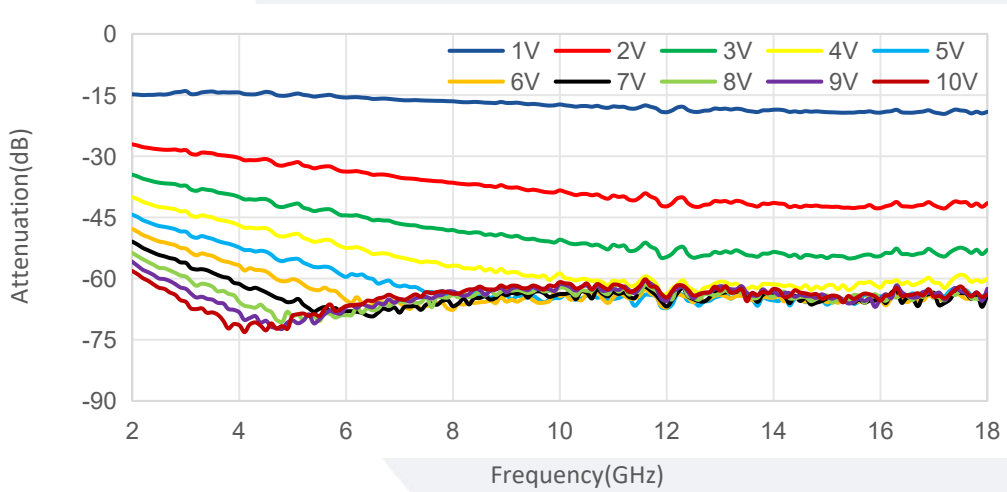
Return Loss vs Frequency@Pin=5dBm



Return Loss vs Frequency@Pin=10dBm



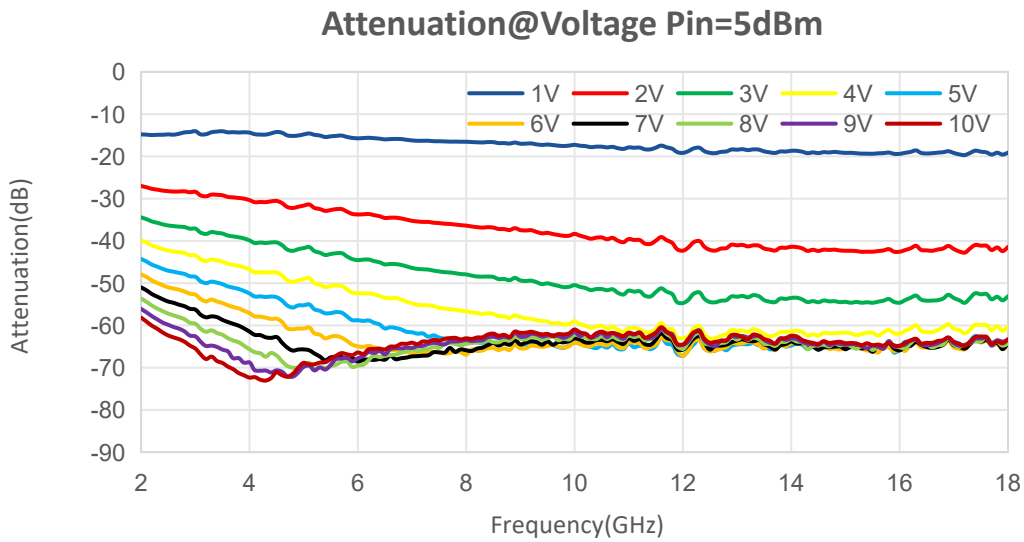
Attenuation@Voltage Pin=0dBm

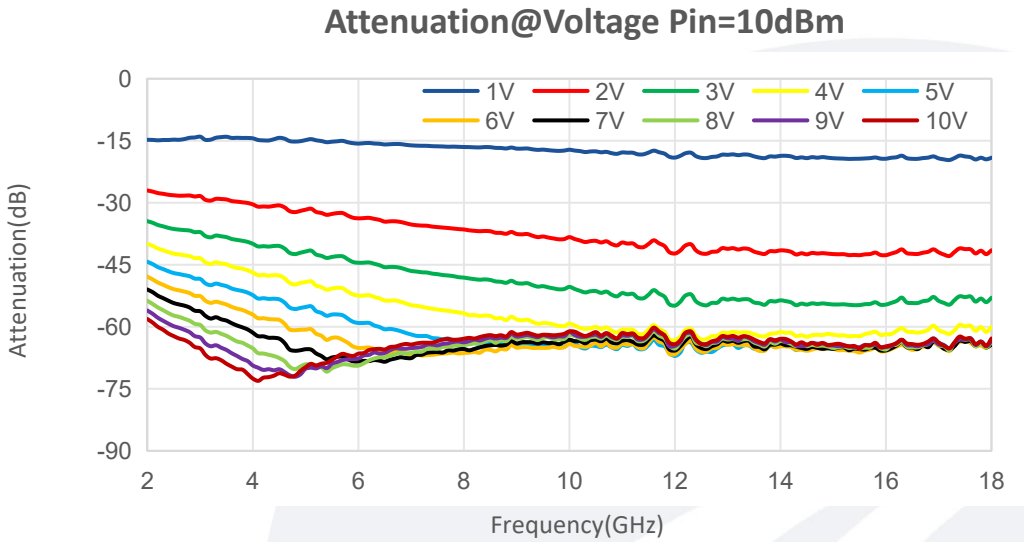


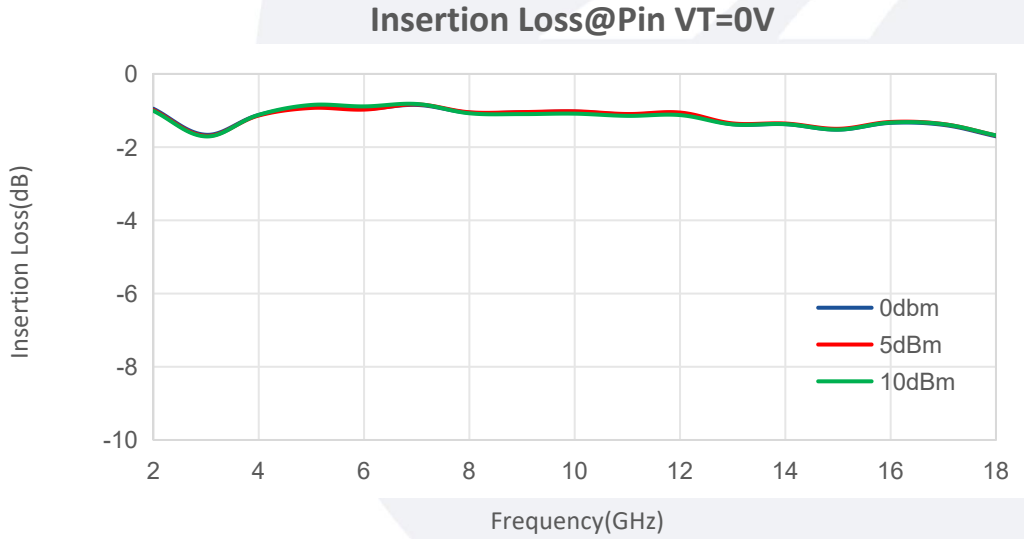
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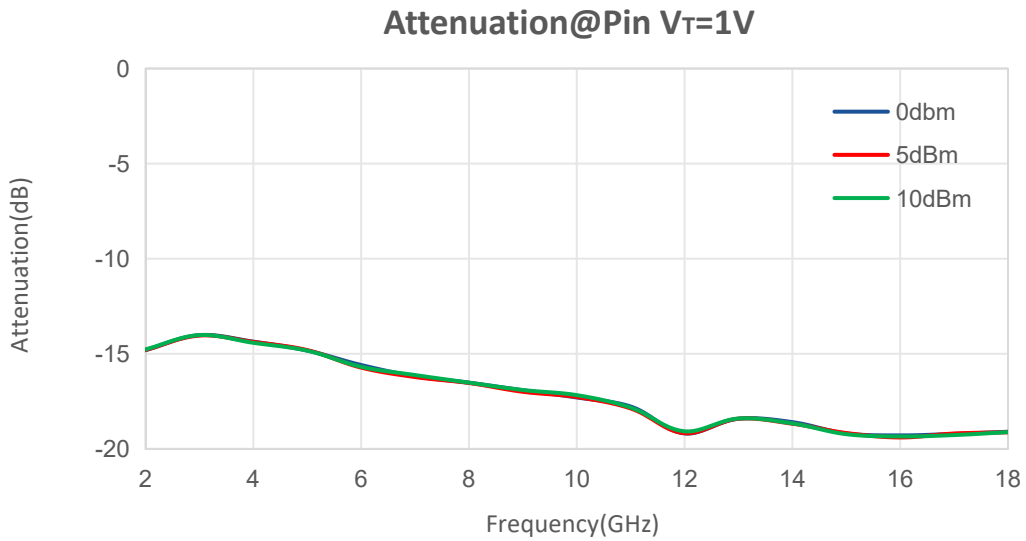


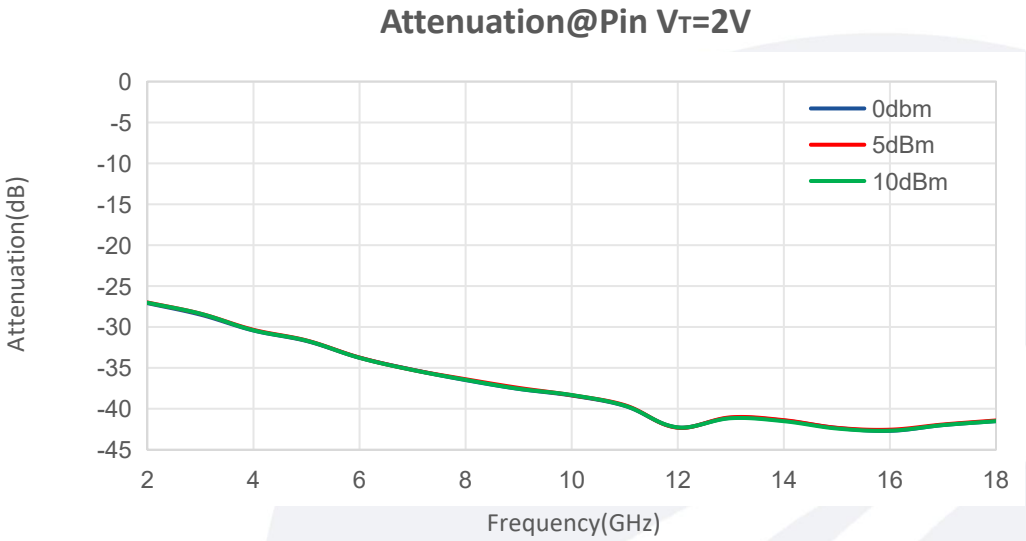


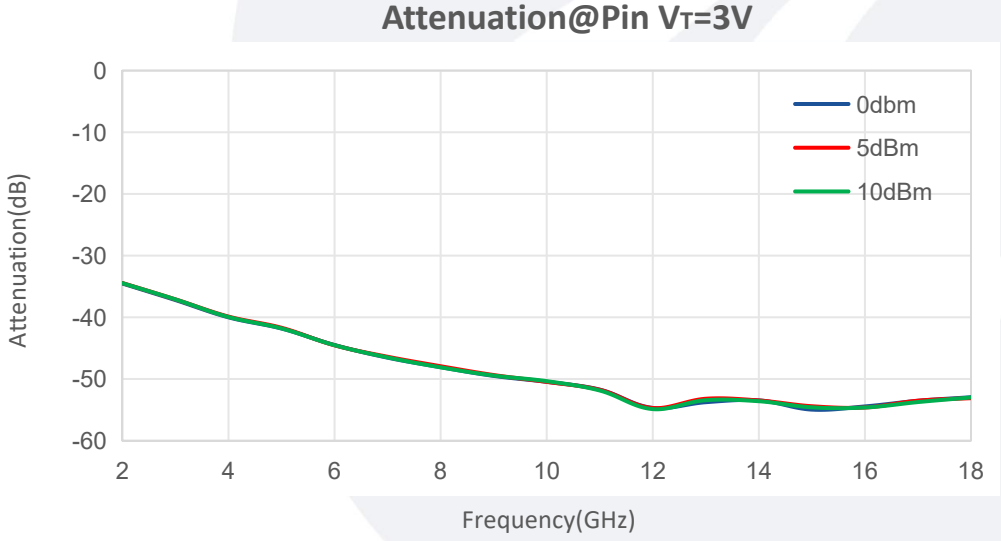
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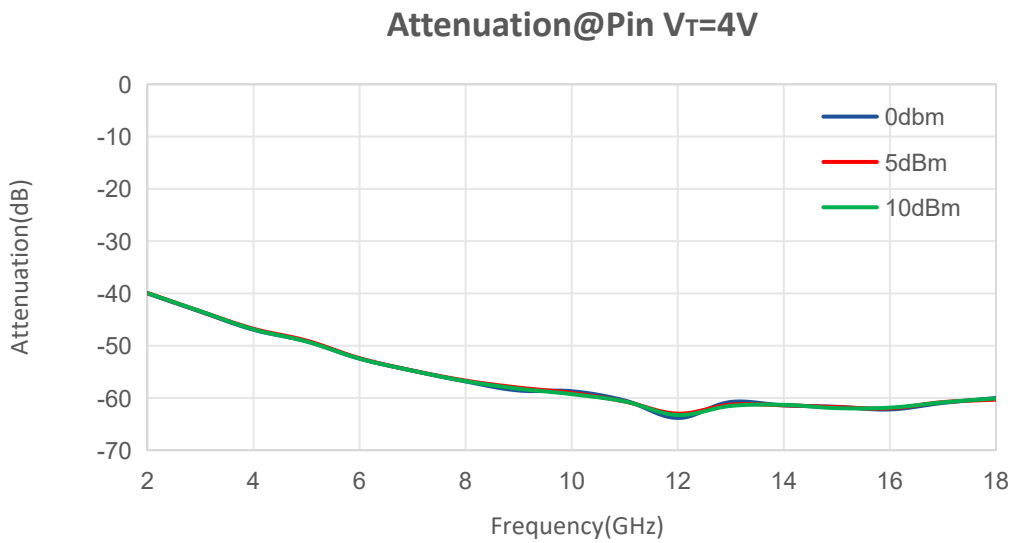


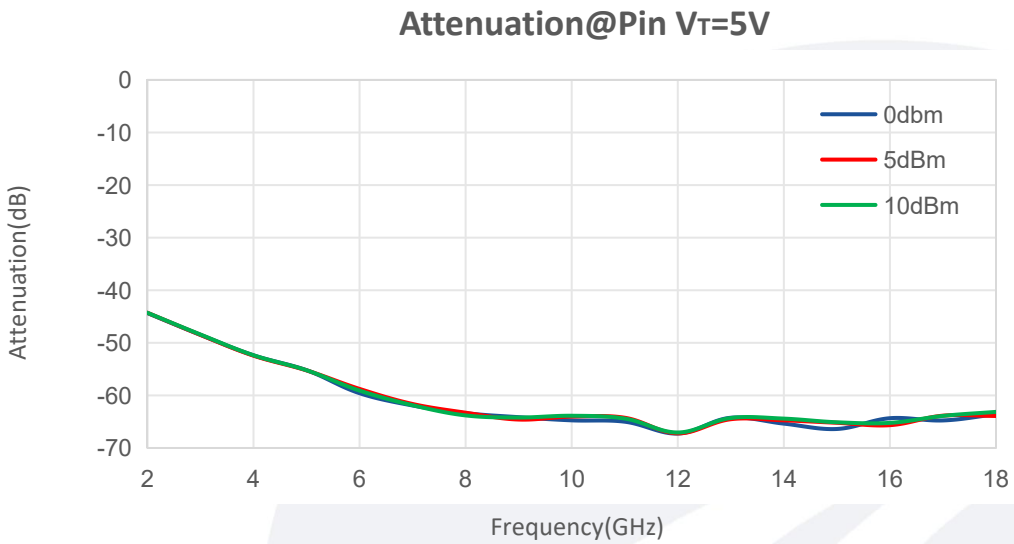


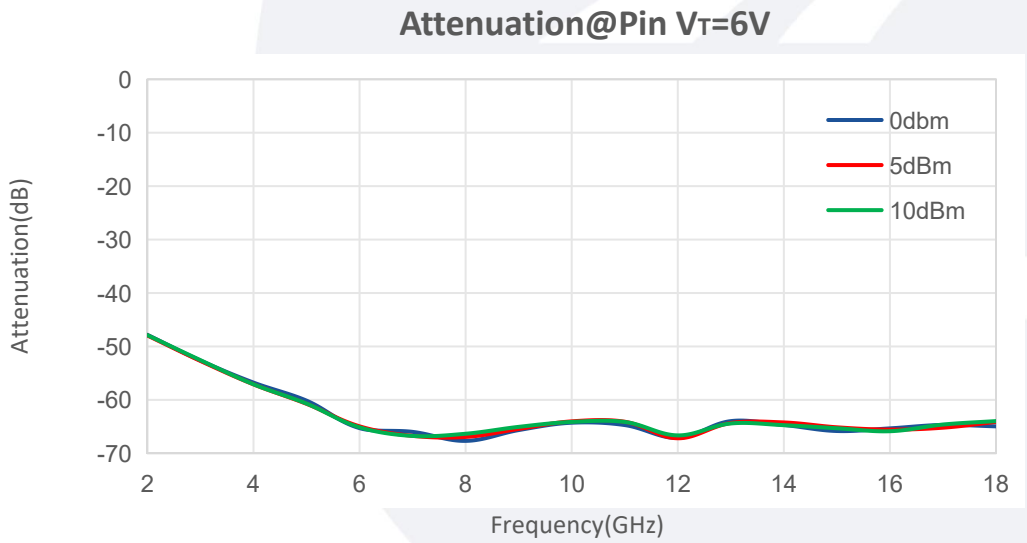
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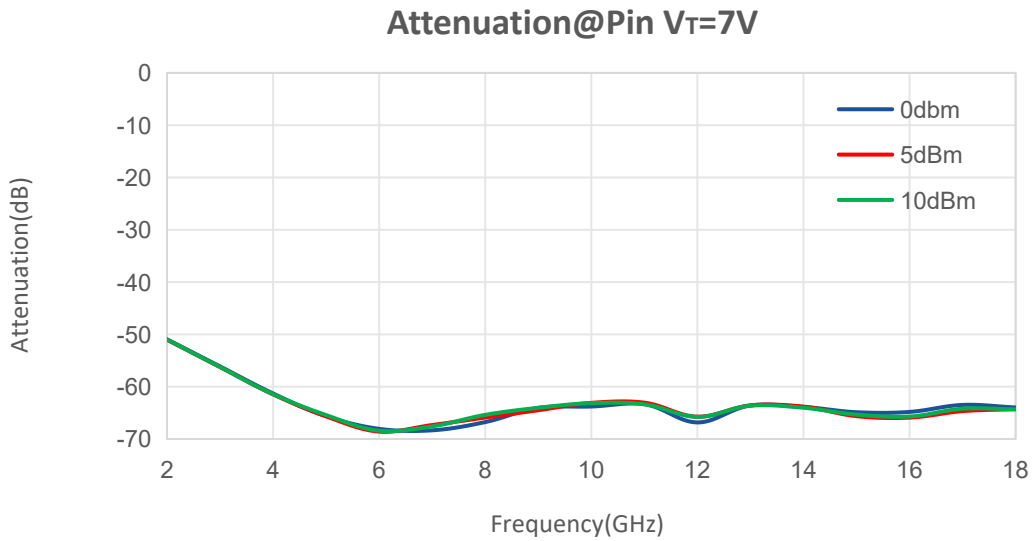


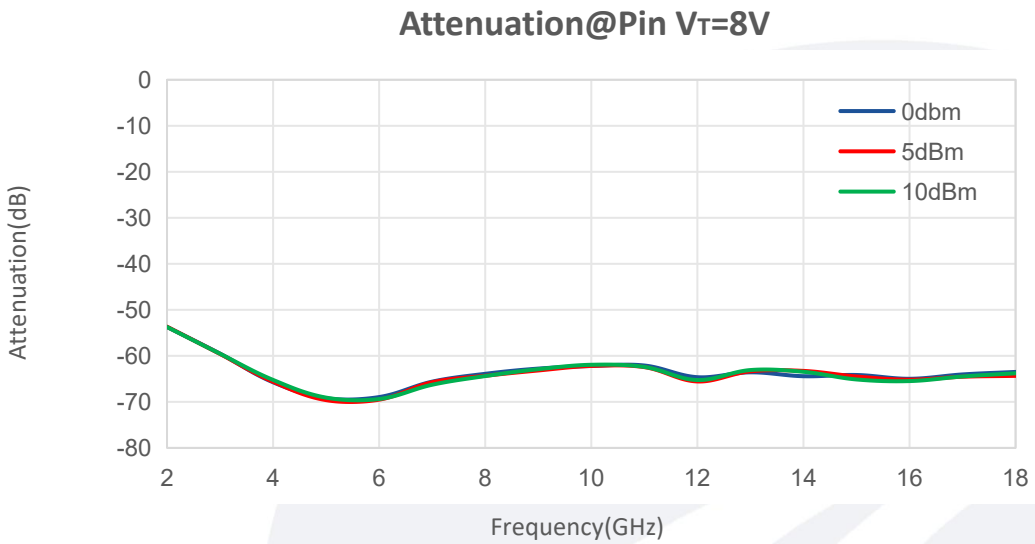


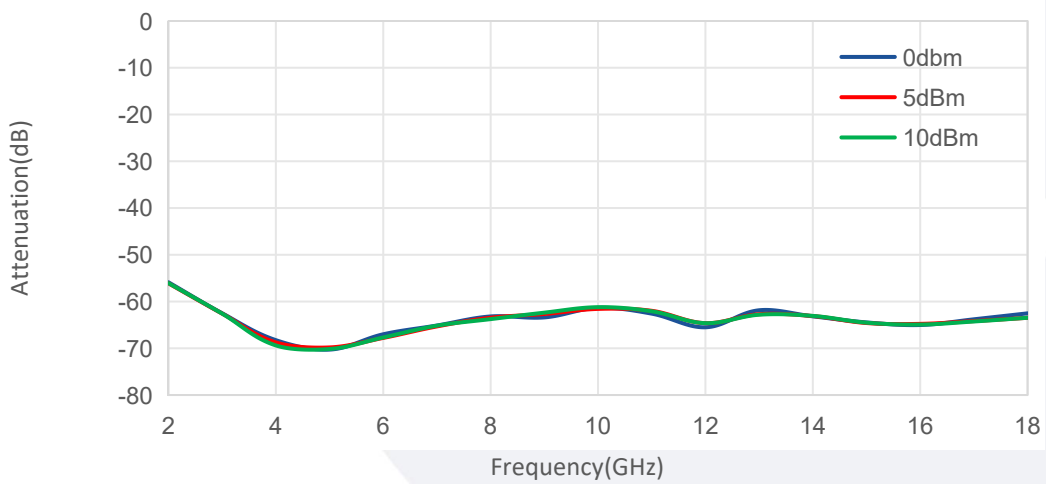
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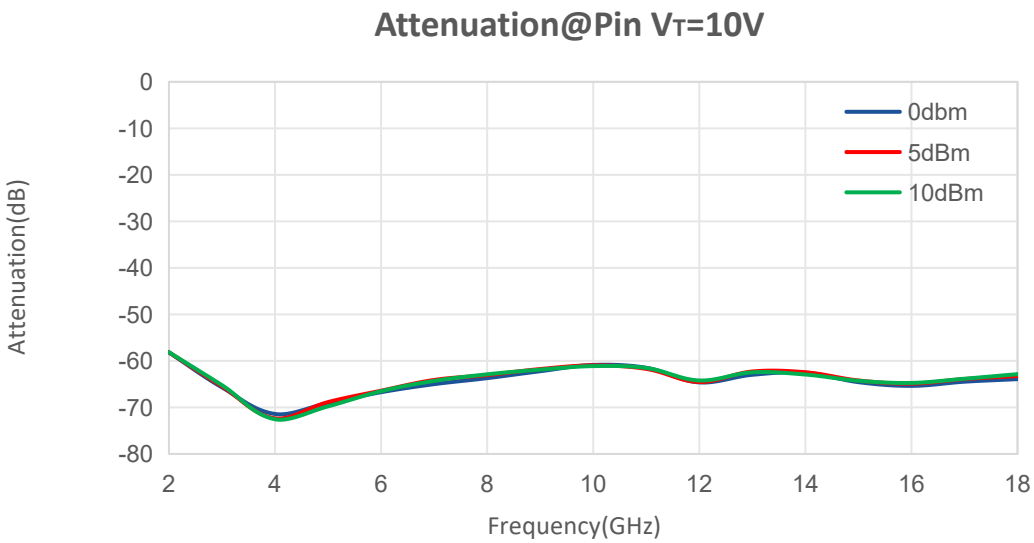




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