

Model: TLDA-0.1G40G-62-7
Digital Attenuator
0.1-40 GHz, 7-Bit, 0.5 dB LSB, 62 dB Range
Feature:

- Ultra Wide Band: 0.1-40GHz
- 7-Bit, 0.5 dB LSB, 62 dB Range
- Low Insertion Loss
- High Attenuator Accuracy

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	0.1-40			GHz
插损 Insertion Loss	6	10	15	dB
衰减范围 Attenuation Range		62		dB
控制位数 Control Bit TTL		7		Bit
衰减步进 Attenuation Step		0.5		dB
切换时间 Switch Speed			1	us
输入驻波 Input VSWR		2.2	2.5	:1
输出驻波 Output VSWR		2.2	2.5	:1
最大输入功率 Input Max Power		25	27	dBm
直流电压 DC Voltage		-5		V DC
直流电流 DC Supply Current		10		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

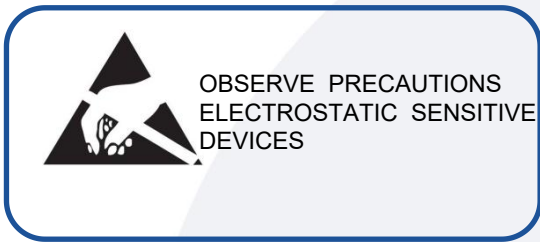
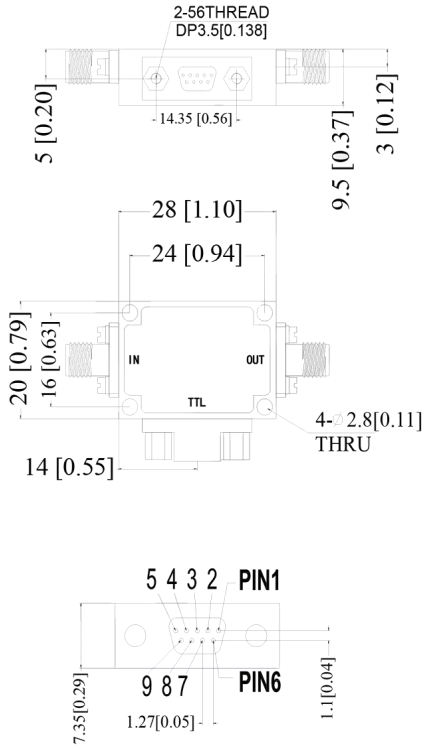
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92mm Female	
控制连接器 Control Connector	J30J-9ZKSP	
尺寸 Size	28*20*5	mm
重量 Weight	TBD	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	27 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸Outline Drawing:

Unit: Inches



J30J-9ZKSP引脚定义	
管脚序号	定义
1	-5V
2	GND
3	C1
4	C2
5	C3
6	C4
7	C5
8	C6
9	C7

控制状态真值表Truth Table(0:低电压0V,1:高电平5V)							
衰减量	C1	C2	C3	C4	C5	C6	C7
0dB	1	1	1	1	1	1	1
0.5dB	0	1	1	1	1	1	1
1dB	1	0	1	1	1	1	1
2dB	1	1	0	1	1	1	1
4dB	1	1	1	0	1	1	1
8dB	1	1	1	1	0	1	1
16dB	1	1	1	1	1	0	1
31.5dB	0	0	0	0	0	0	1
62dB	1	0	0	0	0	0	0

温度环境 Environmental Conditions:

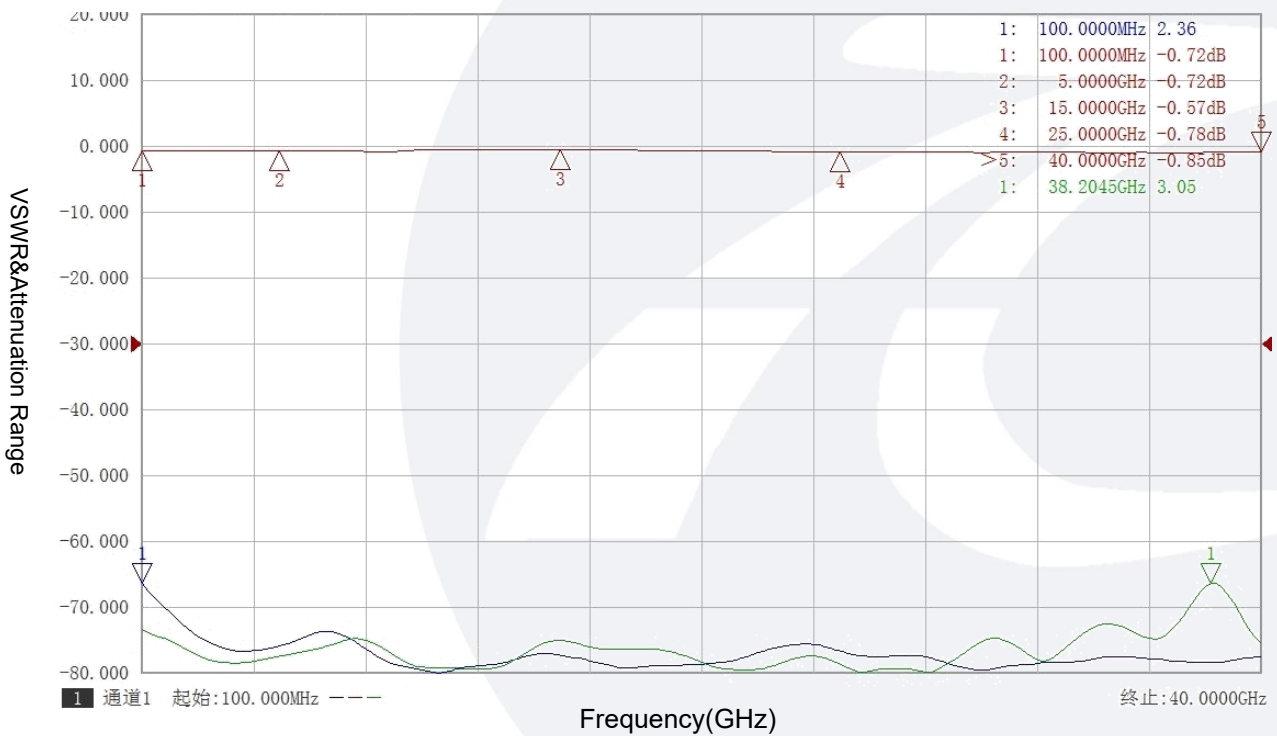
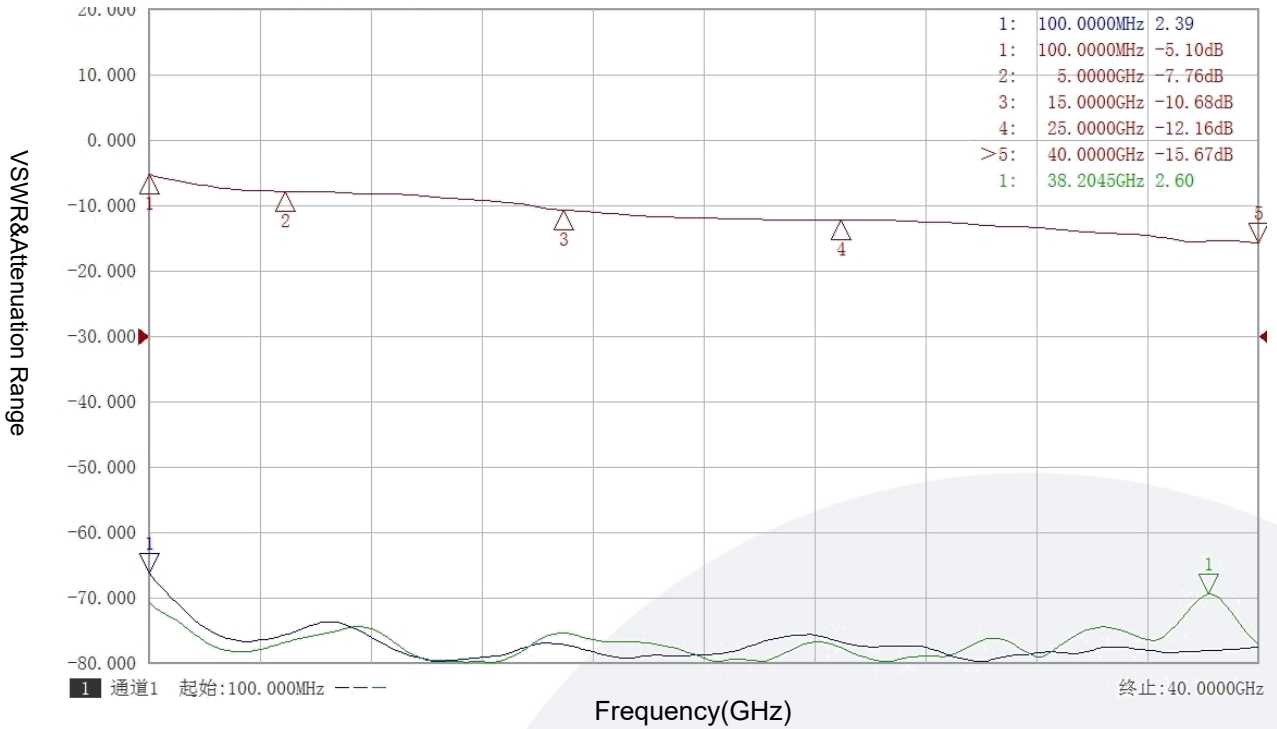
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

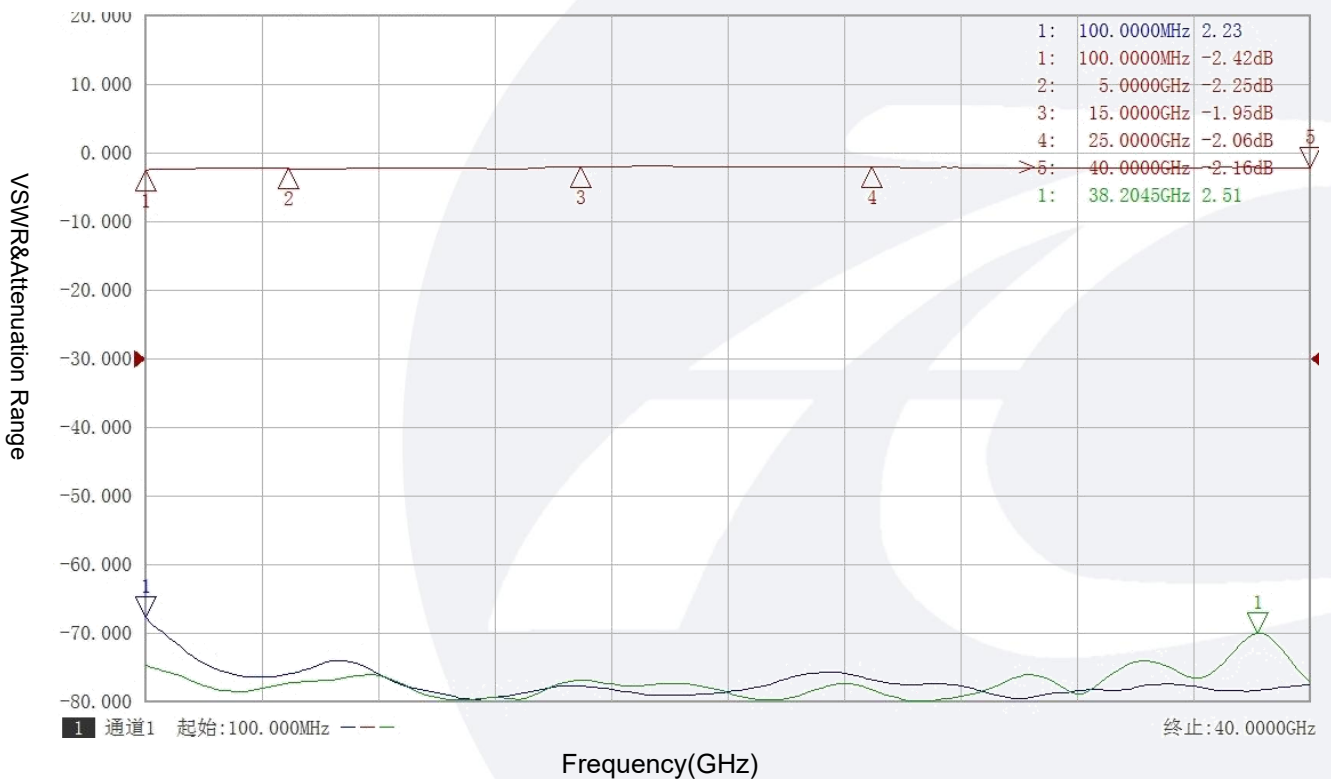
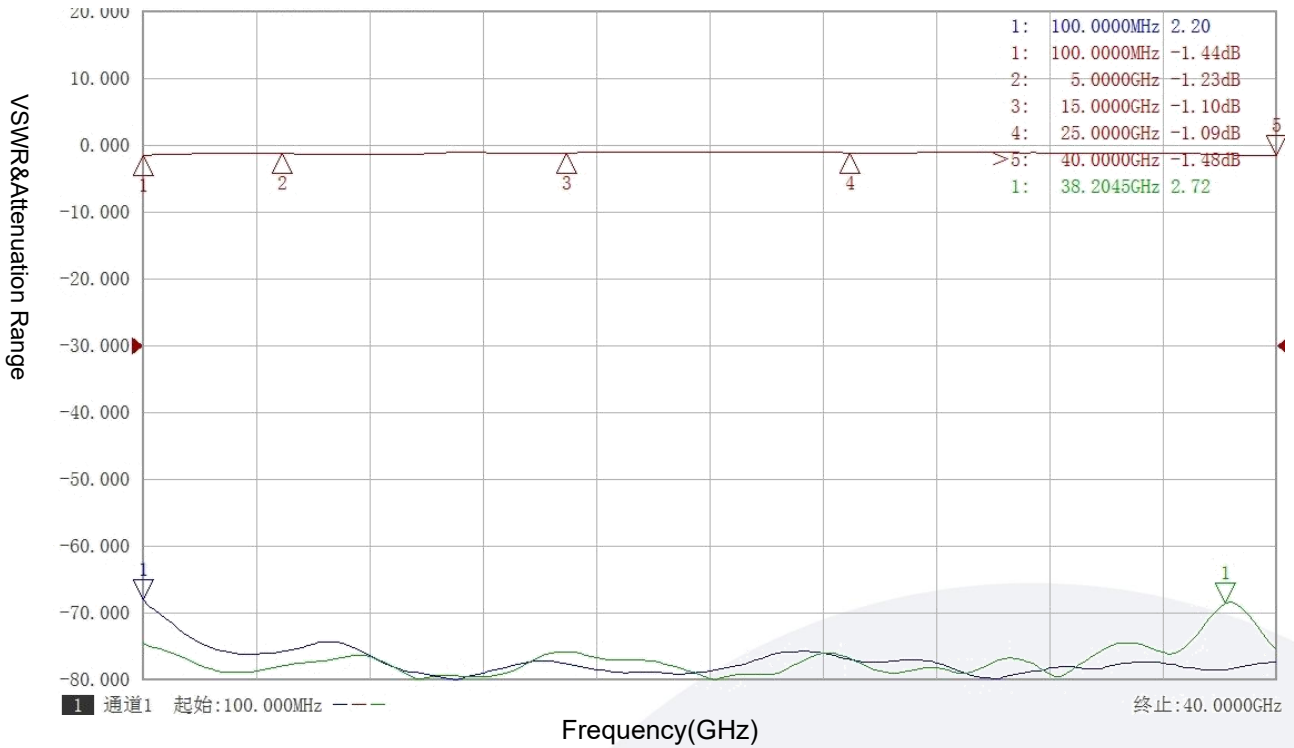
标准型号 Part Number	描述 Description	版本号Revision
TLDA-0.1G40G-62-7	Digital Attenuator 0.1-40 GHz, 7-Bit, 0.5 dB LSB, 62 dB Range	Rev.1.1

典型曲线 Typical Performance Data:

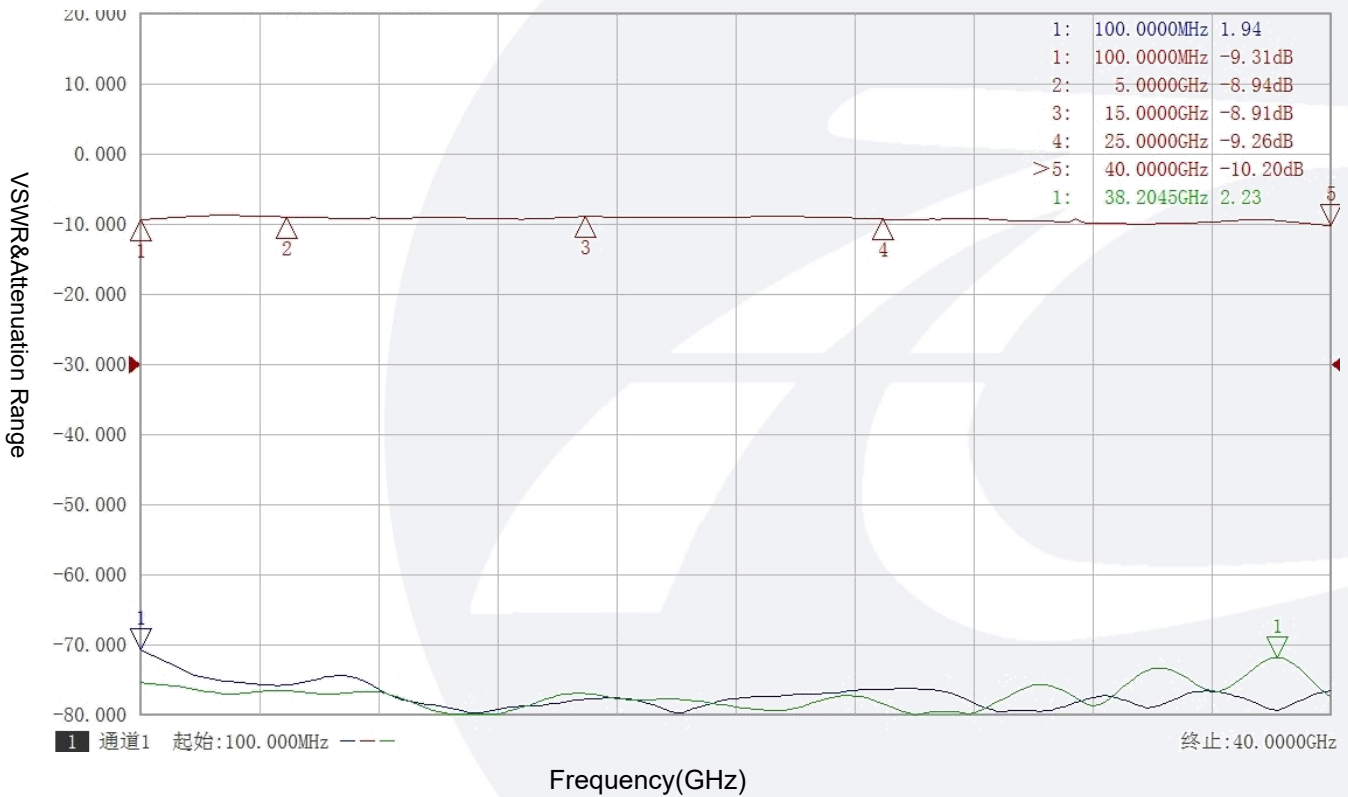
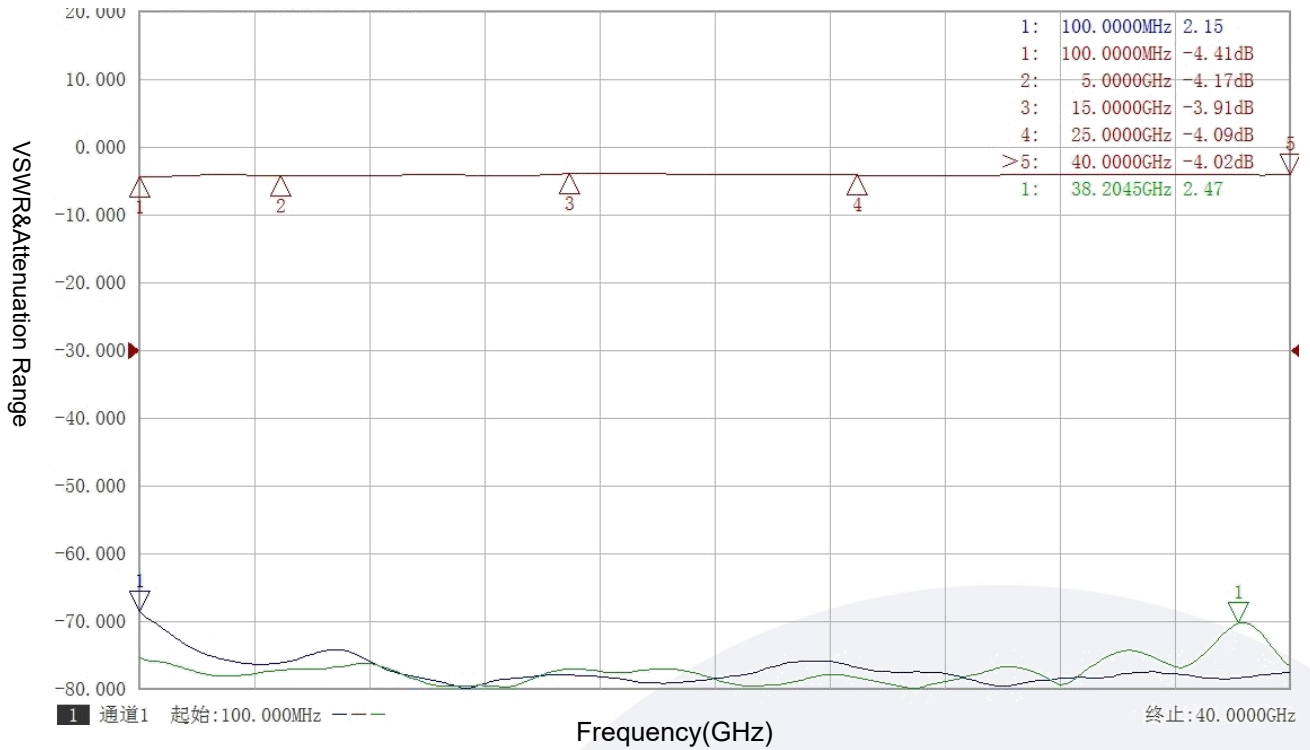
VSWR&Attenuation Range VS Frequency



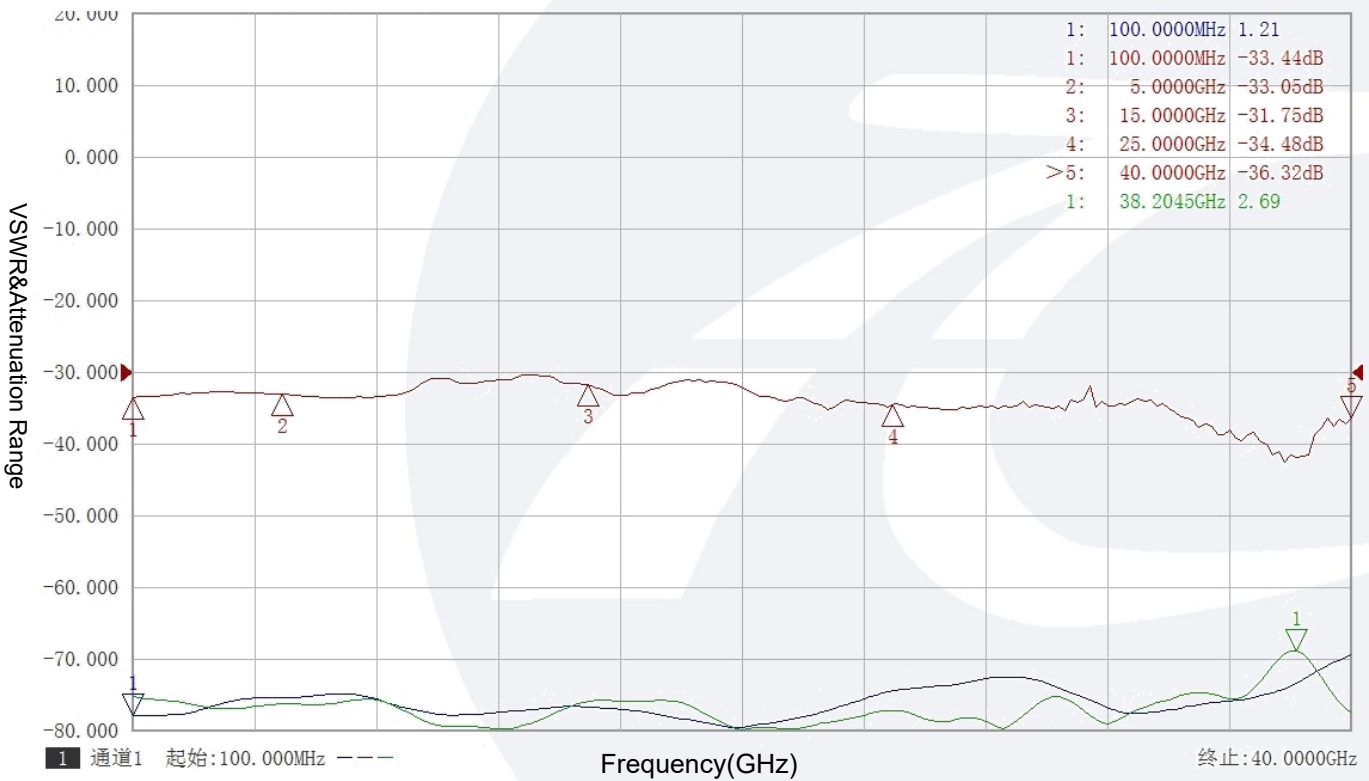
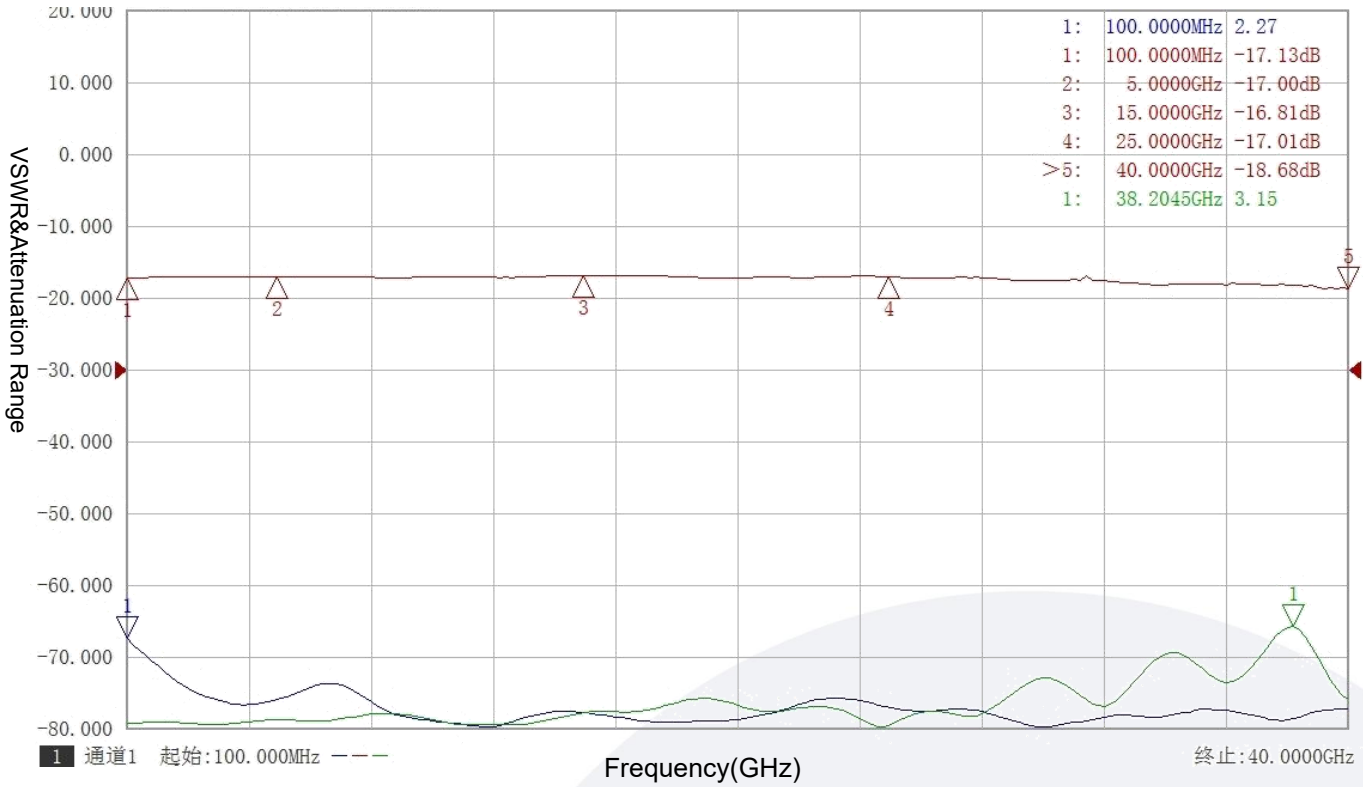
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