

**Model: TLSP4T0.5G40GA-2**
**Absorption, Broadband PIN Switch  
 0.5-40 GHz, SP4T, 2.92mm**
**Feature:**

- Ultra Wide Band: 0.5-40 GHz
- Low Insertion Loss: 6.0 dB
- Power Handling : 25 dBm
- High Isolation
- Switch Type: Absorption

**电气特性 Electrical:**

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	0.5-40			GHz
插损 Insertion Loss		6.0		dB
隔离 Isolation	60	70		dB
切换速度 Switch Speed		100		ns
输入驻波 Input VSWR		2.0	2.5	:1
输出驻波 Output VSWR		2.0	2.5	:1
耐功率 Power Handling			25	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 :**

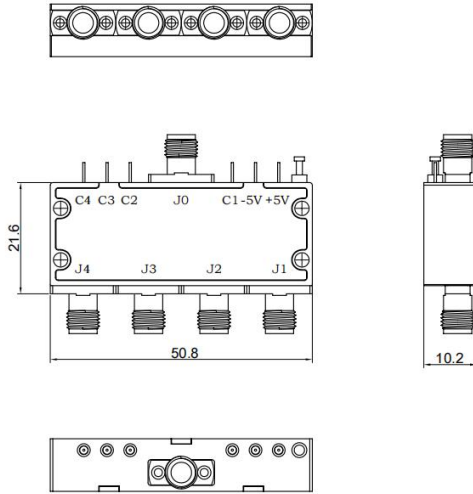
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92mm Female	
直流控制接口 Control Bias	Solder Pin	
尺寸 Size	50.8*30*10.2	mm
重量 Weight	35	g

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+/-5%
输入功率 RF Input Power	25 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**外形尺寸 Outline Drawing:**

Unit: mm(Inches)



真值表 Truth Table				
TTL Control Input				Signal Path State
C4	C3	C2	C1	
0	0	0	1	J0-J1
0	0	1	0	J0-J2
0	1	0	0	J0-J3
1	0	0	0	J0-J4
1: +3.3V/+5V 0:0V				

1. Dimensions are in mm [inches]
  2. Tolerances: Outline drawing  $\pm 0.2$  [0.008] Hole  $\pm 0.2$  [0.008]
- NOTE: ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
3. +5V CAN BE NOT CONNECTED



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**温度环境 Environmental Conditions:**

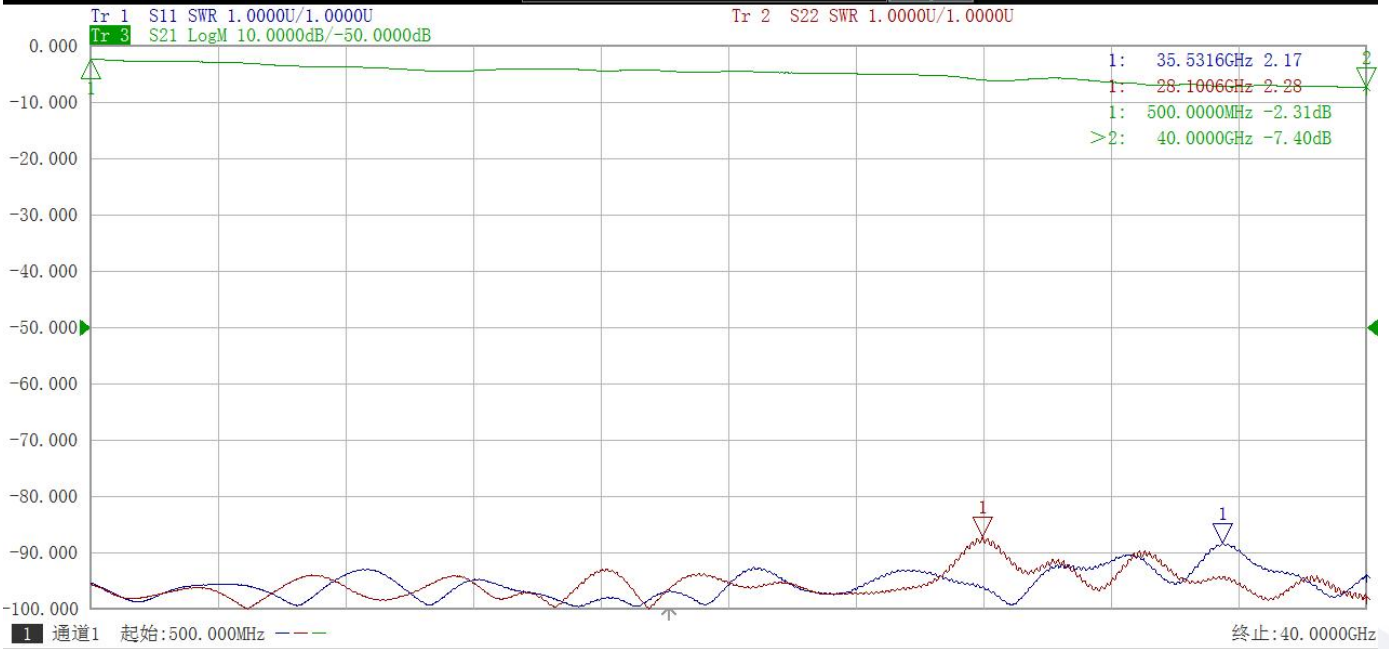
参数 Parameter	Min.	Typ.	Max.	单位 Units
操作温度 Operating Temperature	-20		+70	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave, 3 axis both directions			

**订货信息 Ordering Information:**

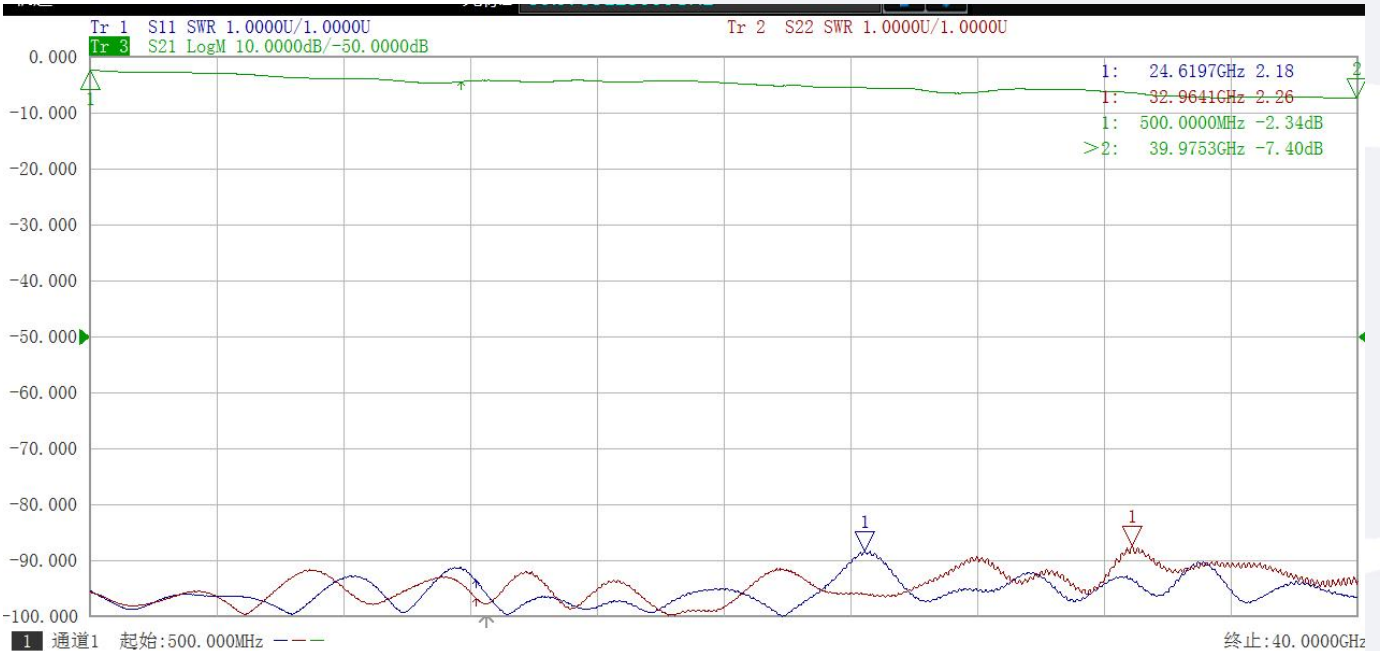
标准型号 Part Number	描述 Description	版本号 Revision
TLSP4T0.5G40GA-2	Absorption, Broadband PIN Switch 0.5-40 GHz, SP4T, 2.92mm	Rev.1.1

典型曲线 Typical Performance Data:

1.J0-J1插入损耗

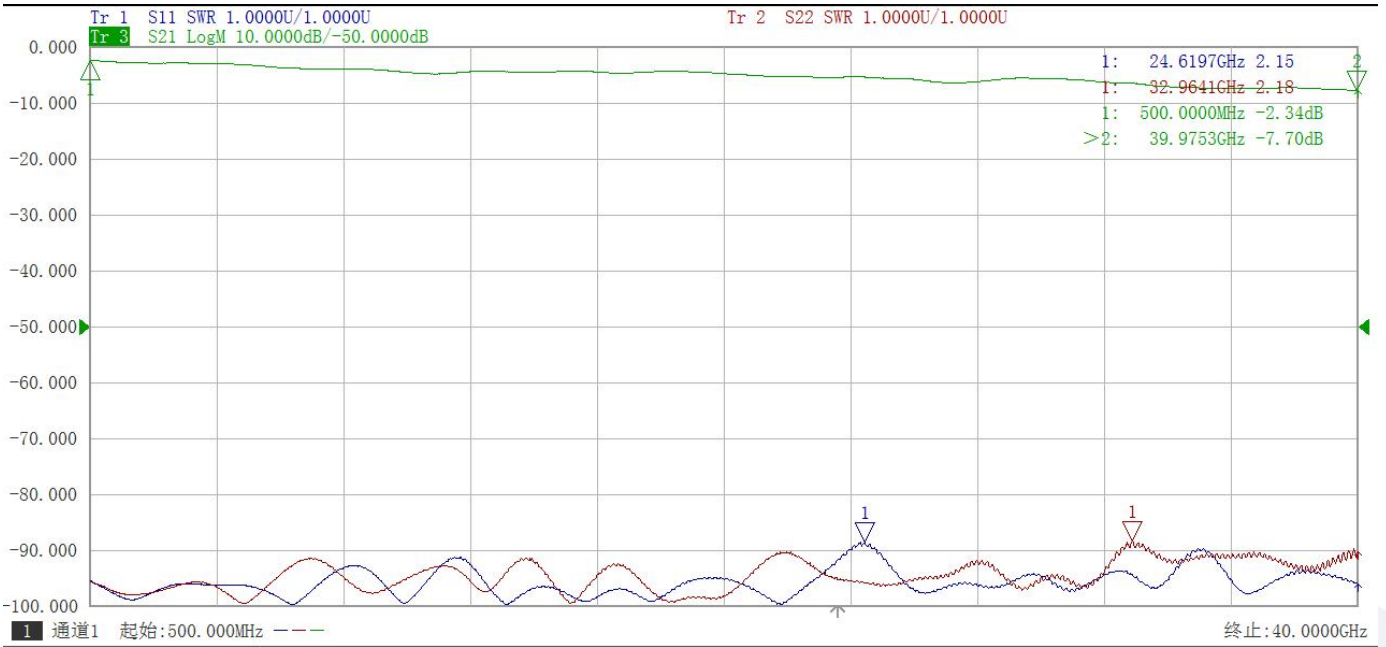


2.J0-J2插入损耗

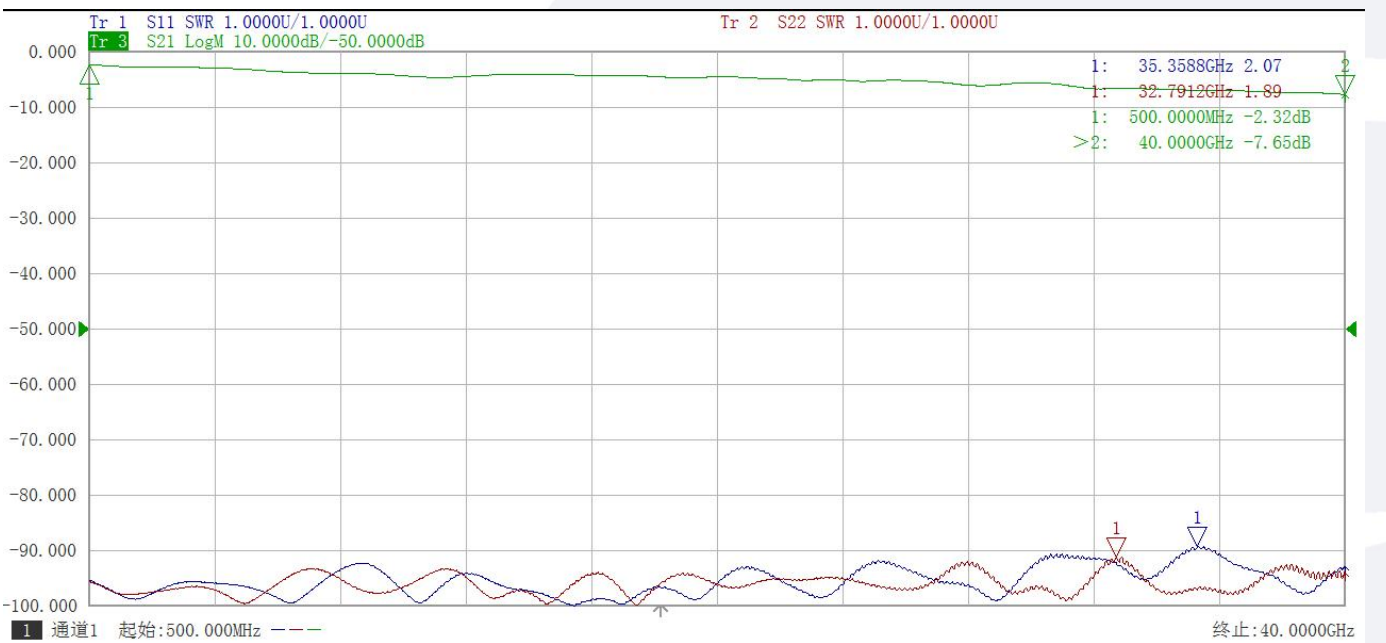


典型曲线 Typical Performance Data:

3. J0-J3 插入损耗

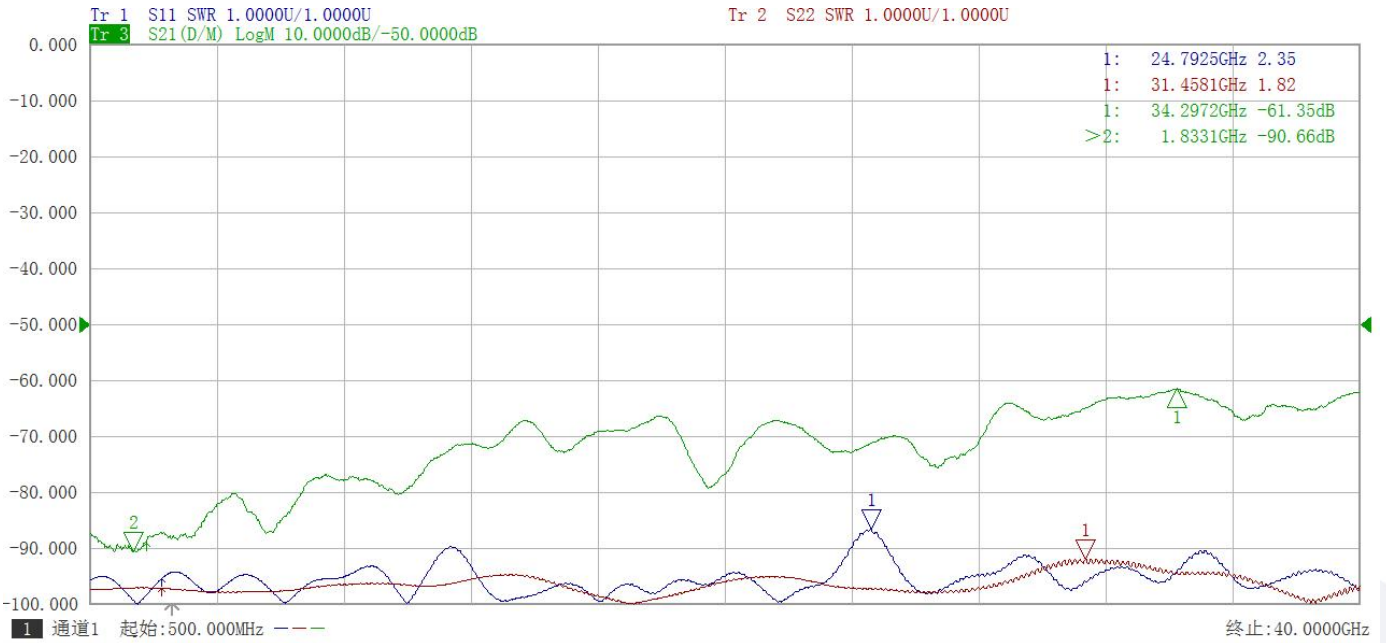


4. J0-J4 插入损耗

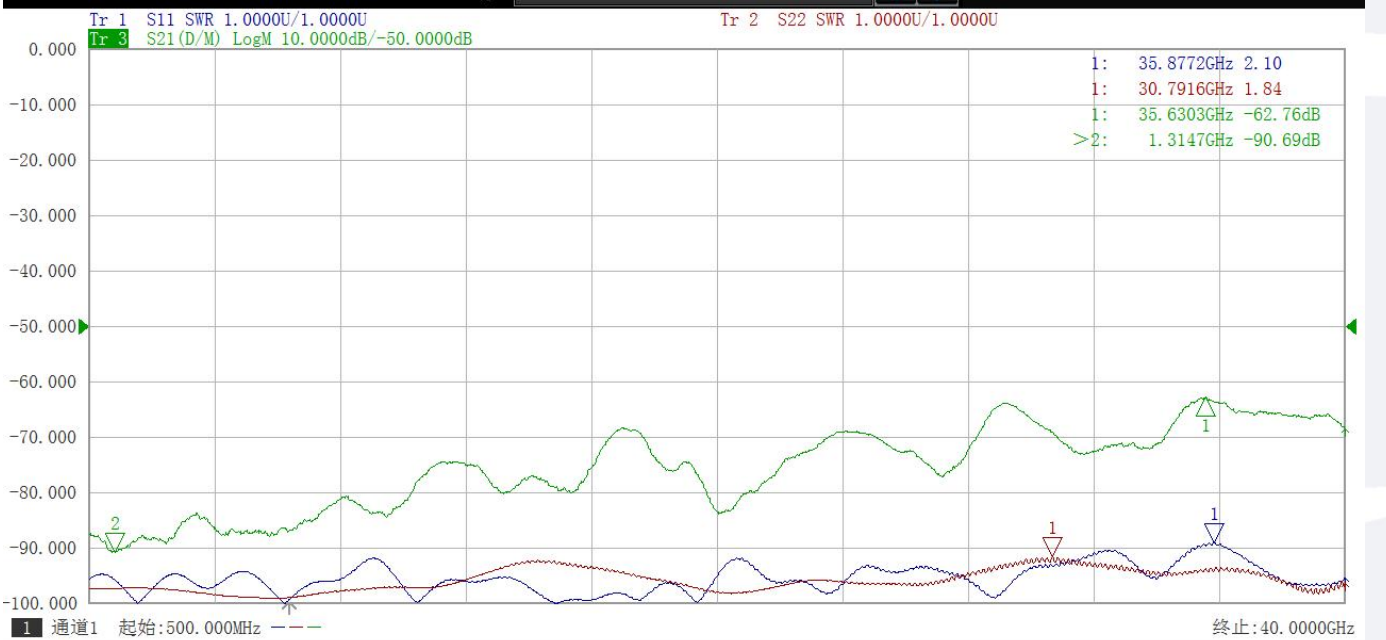


典型曲线 Typical Performance Data:

5. J0-J1 隔离度

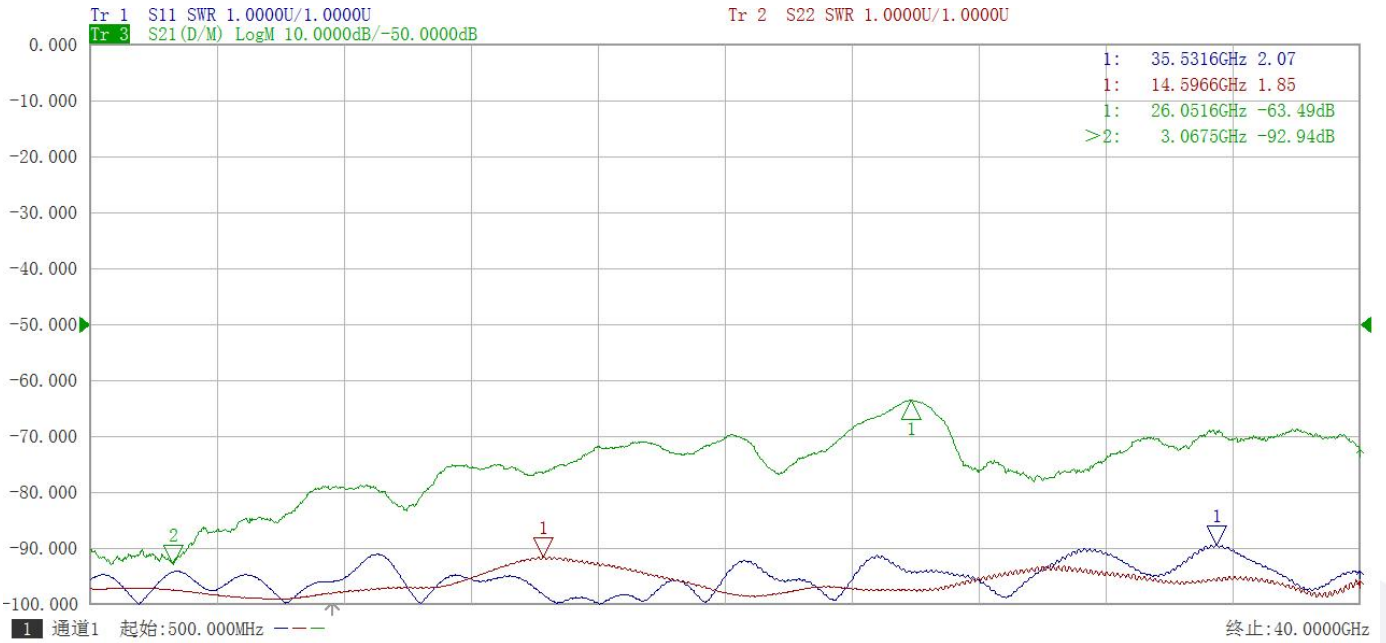


6. J0-J2 隔离度

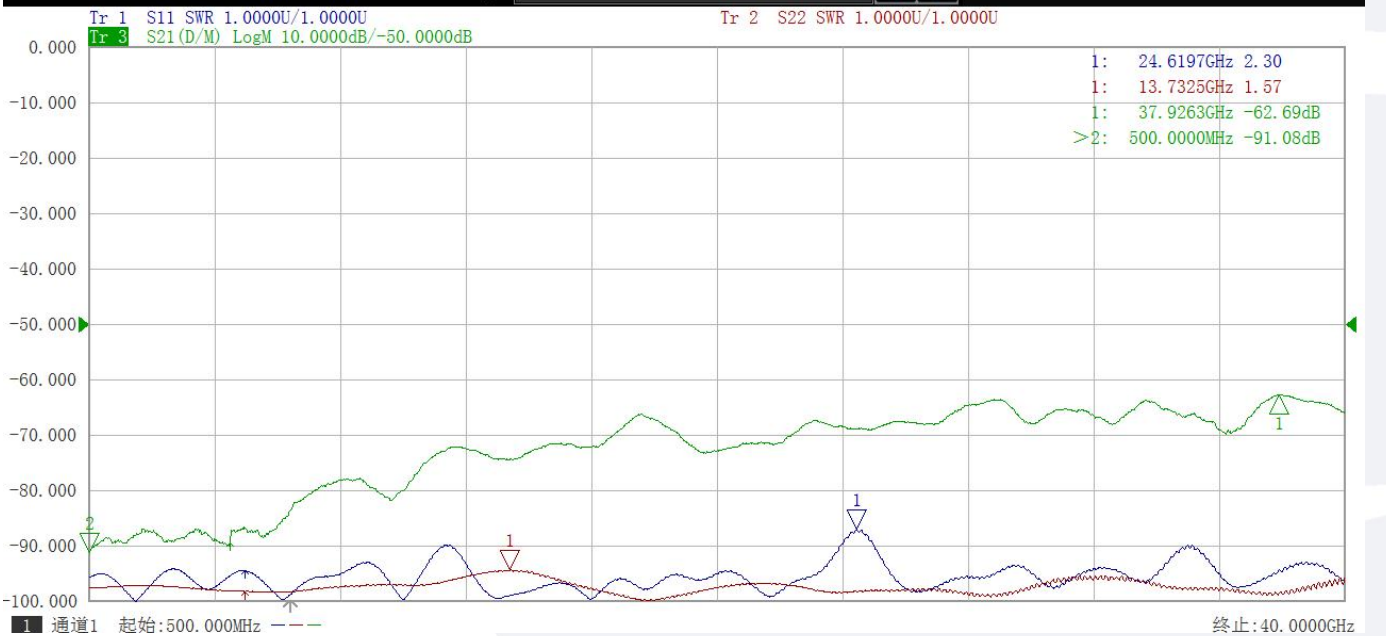


典型曲线 Typical Performance Data:

7.J0-J3隔离度

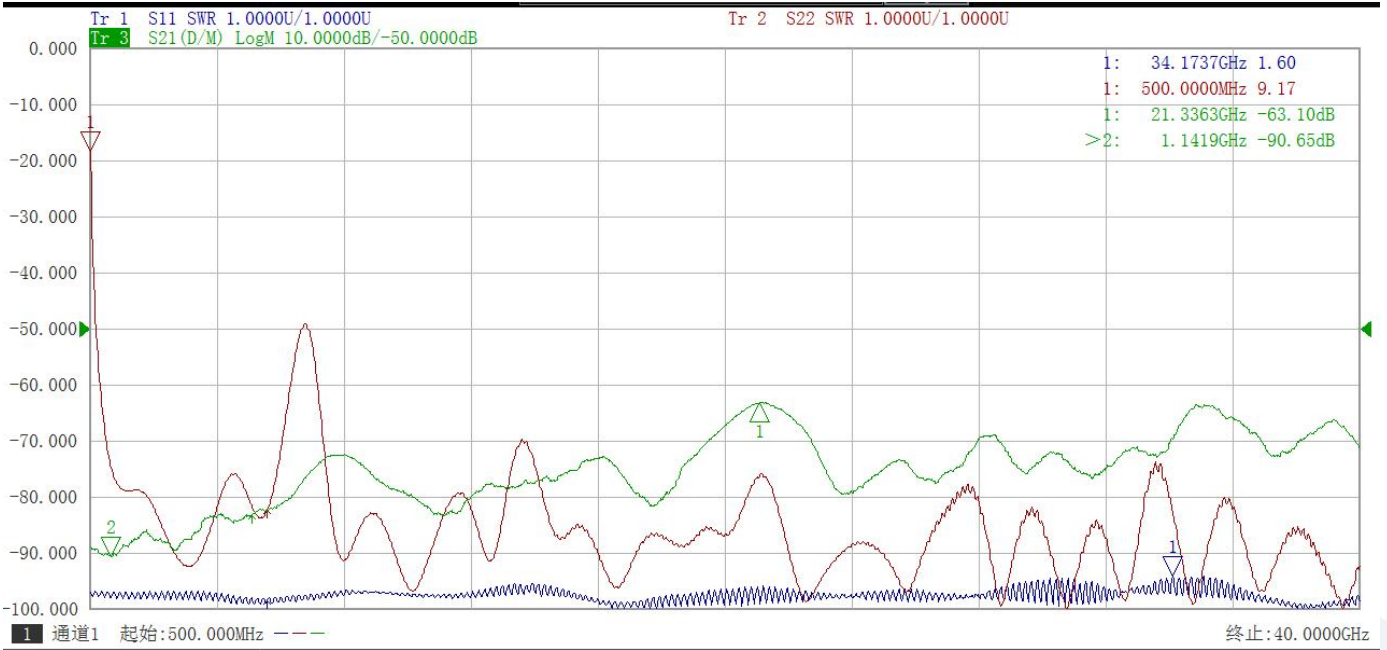


8.J0-J4隔离度



典型曲线 Typical Performance Data:

9.J1-J2隔离度



10.J3-J4隔离度

