

Model: TLSP8T0.5G40GA
Absorption, Broadband FET Switch, 0.5-40GHz,
Feature:

- Ultra Broadband: 0.5-40 GHz
- Low Insertion Loss: 8.0 dB
- Power Handling : 25 dBm
- High Isolation
- Switch Type: Absorption

电气特性 Electrocal Specifications:

参数Parameter	Min	Typ	Max	Units
频率范围 Frequency range	0.5-40			GHz
隔离 Isolation	55	70		dB
插损 Insertion Loss		8		dB
输入驻波 Input VSWR		2	3	:1
输出驻波 Output VSWR		2	3	:1
切换速度 Switch Speed		50	100	ns
最大输入功率 RF Input Power			25	dBm
TTL逻辑 Control Logic TTL	0/+5			V
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		30		mA
开关类型 Switch Type	Absorption			
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

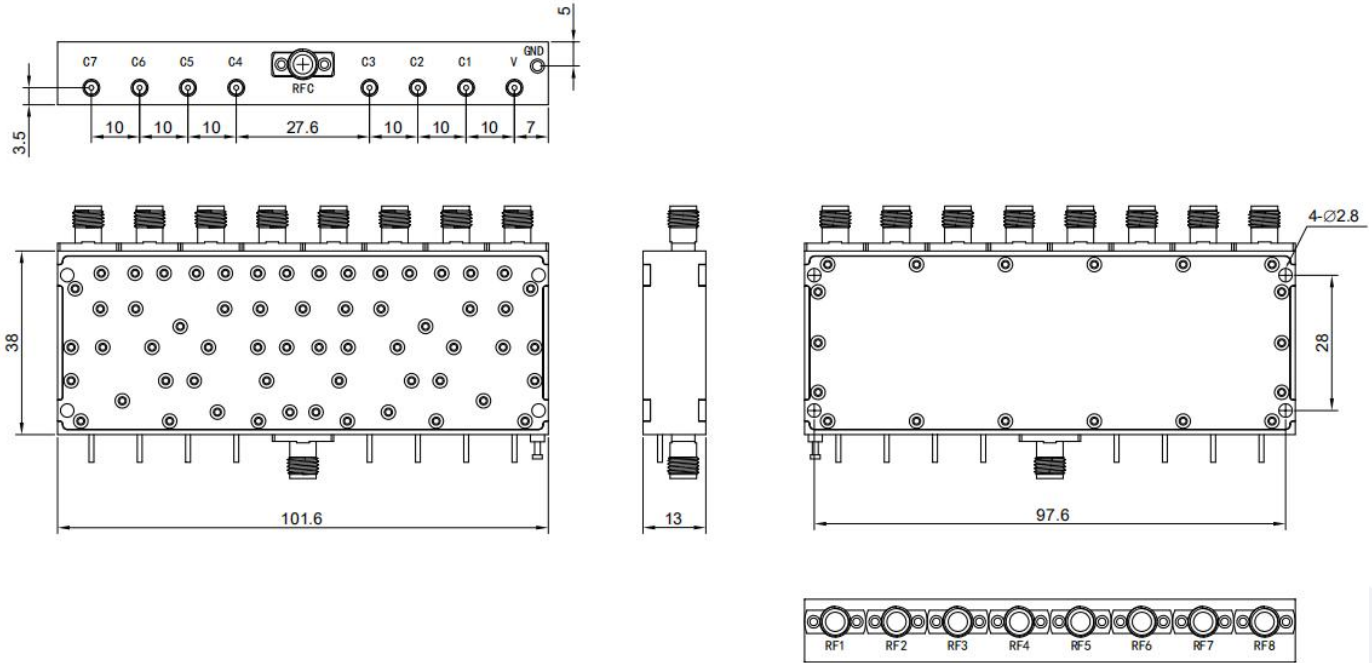
参数 Parameter	指标 Value	单位 Units
输入输出接口 Input /Output Connector	2.92mm Female	
直流控制接口 Control Bias	Solder Pin	
尺寸 Size	101.6*38*13	mm

绝对最大值 Absolute Maximum Ratings :

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+/-10%
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)



TTL Control Voltages & VDD	
Stage	Bias Condition
+V	+12V (±10%)
Low	0 to 0.8Vdc
High	+5.0Vdc

Control Input TTL							Signal Path State
C1	C2	C3	C4	C5	C6	C7	
0	1	1	1	1	0	0	J0-J1
0	1	1	0	1	0	0	J0-J2
0	1	1	1	0	0	0	J0-J3
0	1	1	0	0	0	0	J0-J4
1	0	0	0	0	1	1	J0-J5
1	0	0	0	0	0	1	J0-J6
1	0	0	0	0	1	0	J0-J7
1	0	0	0	0	0	0	J0-J8
1	1	1	0	0	0	0	OFF

温度环境 Environmental Conditions:

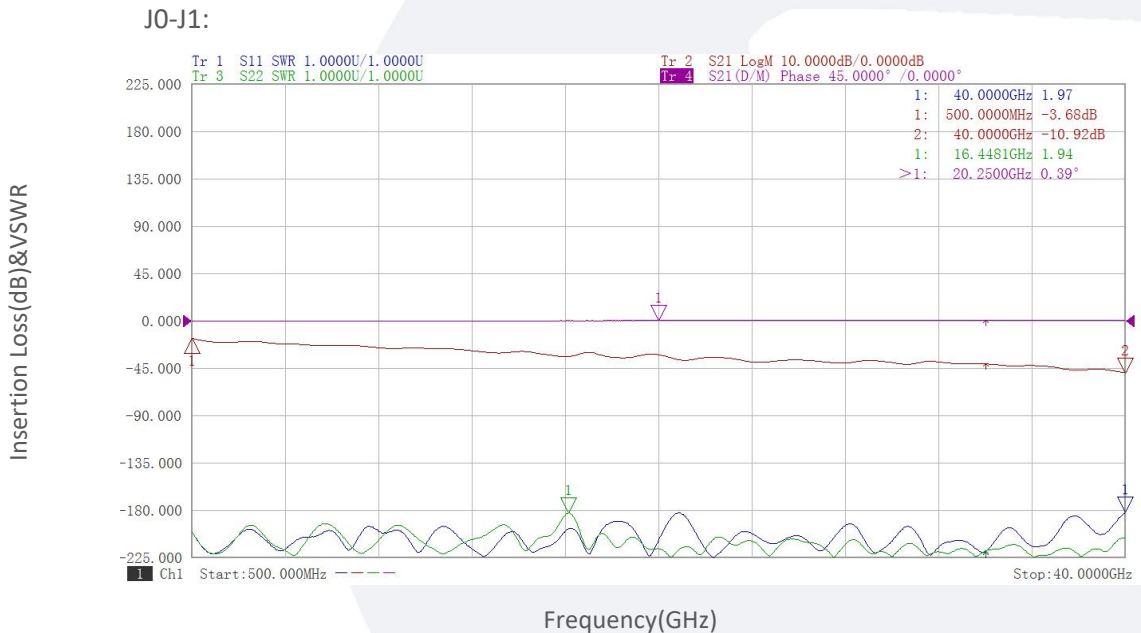
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-20		+70	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc 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
TLSP8T0.5G40GA	Absorption, Broadband FET Switch 0.5-40GHz, SP8T, 2.92 Female	Rev.1.1

典型曲线 Typical Performance Data:

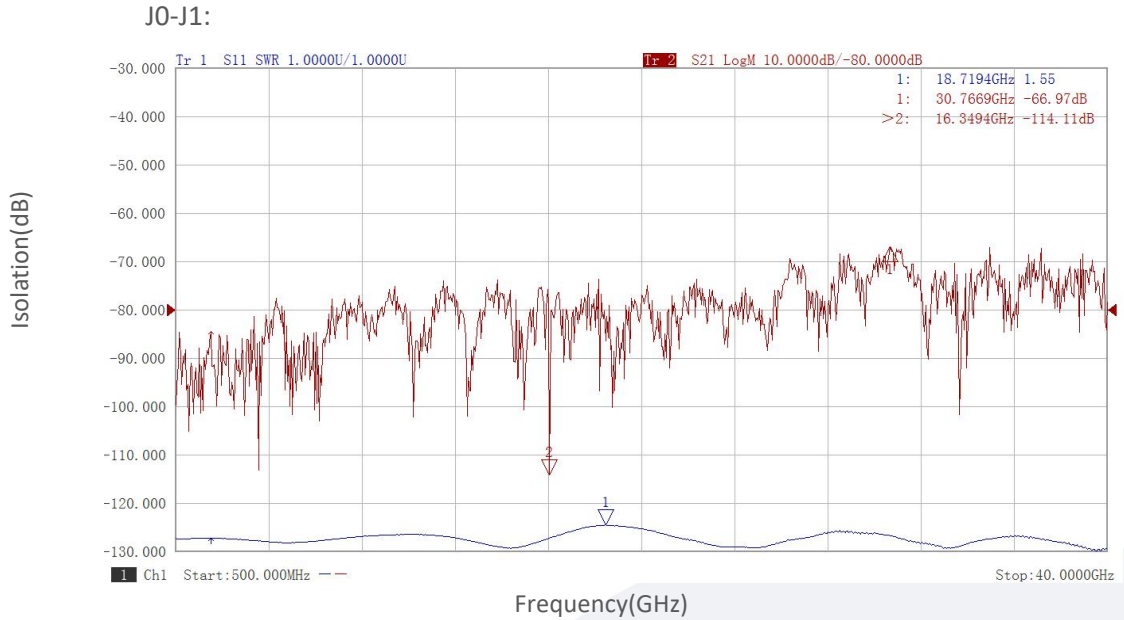
Insertion Loss & VSWR vs Frequency



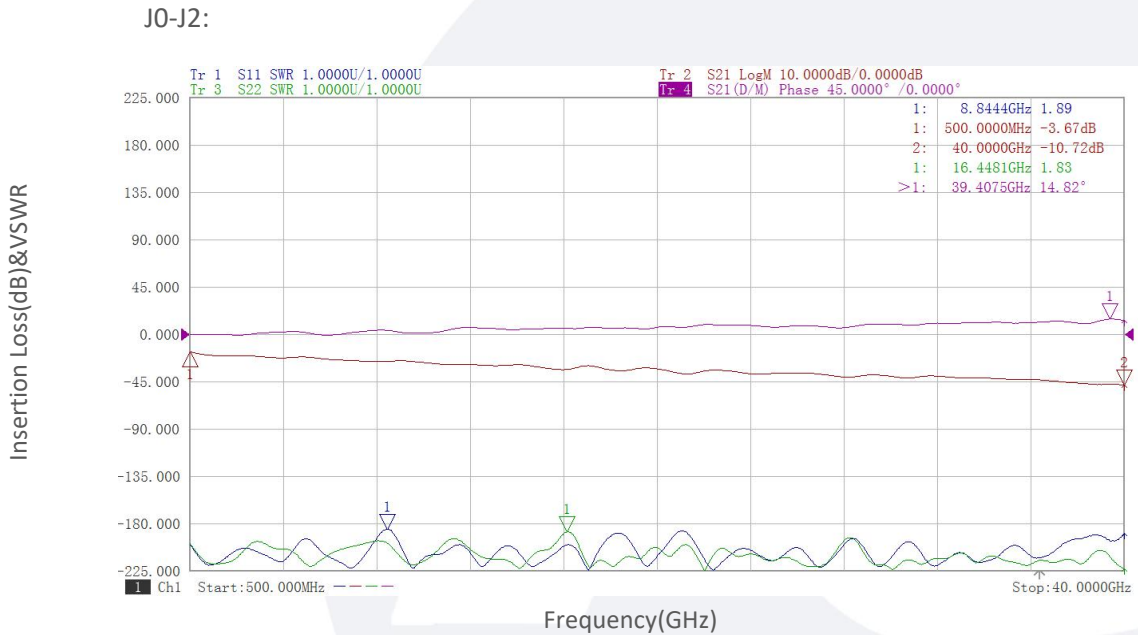
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

Isolation vs Frequency



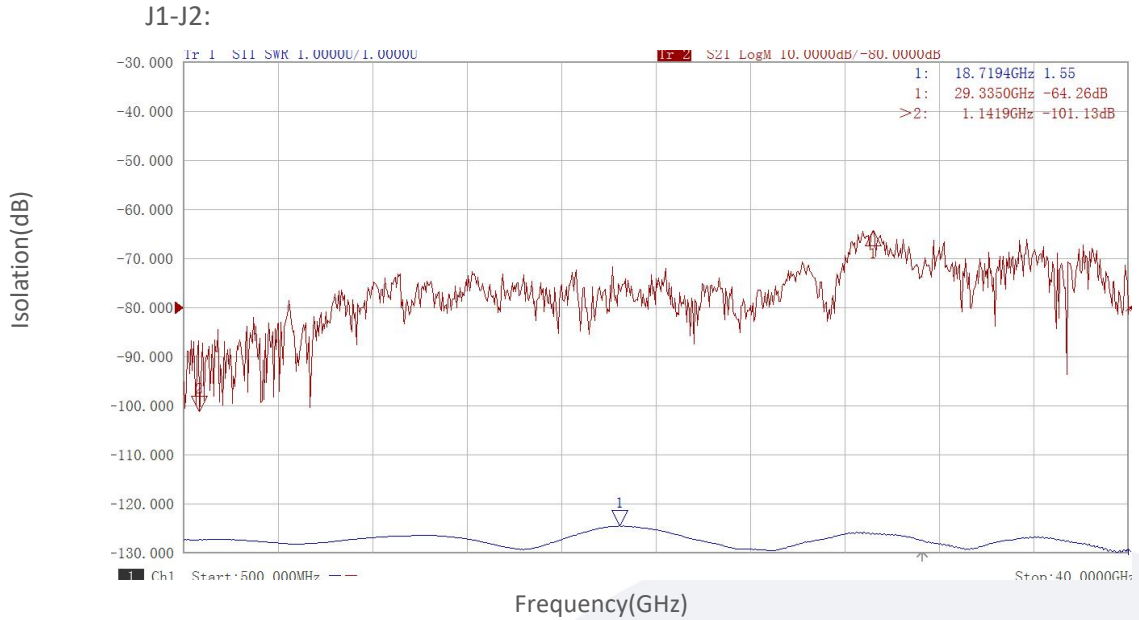
Insertion Loss&VSWR vs Frequency



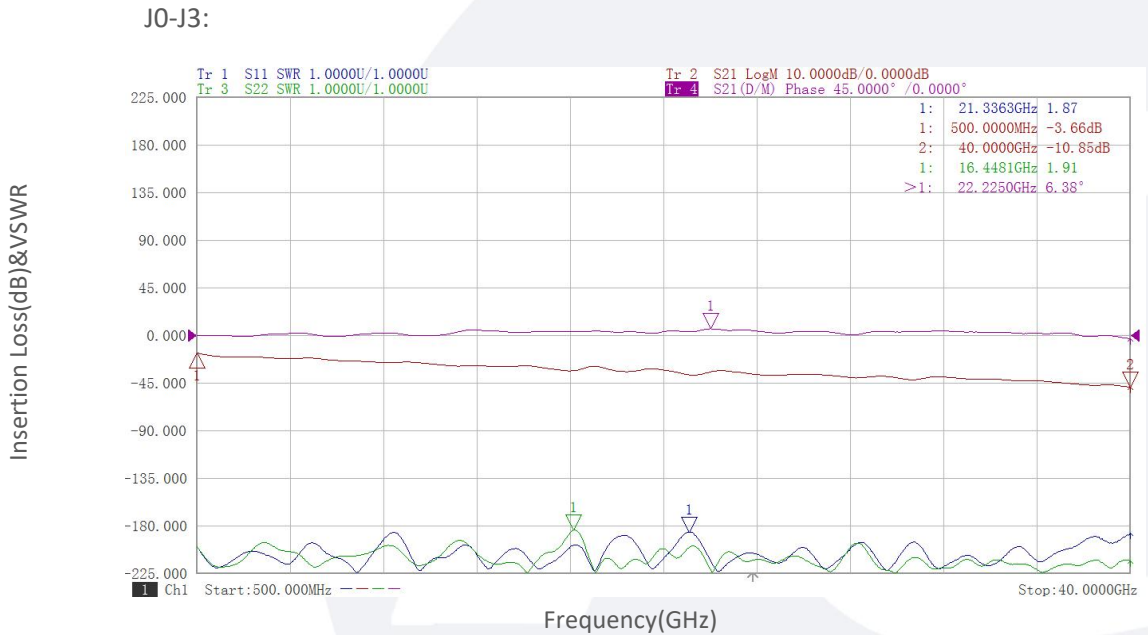
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Isolation vs Frequency



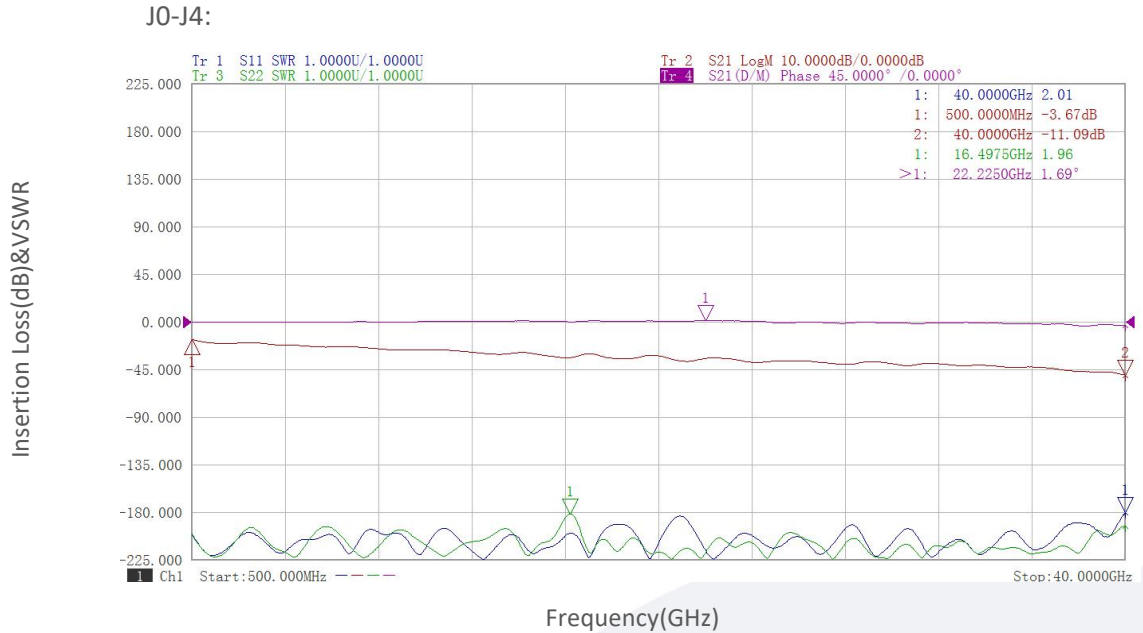
Insertion Loss & VSWR vs Frequency



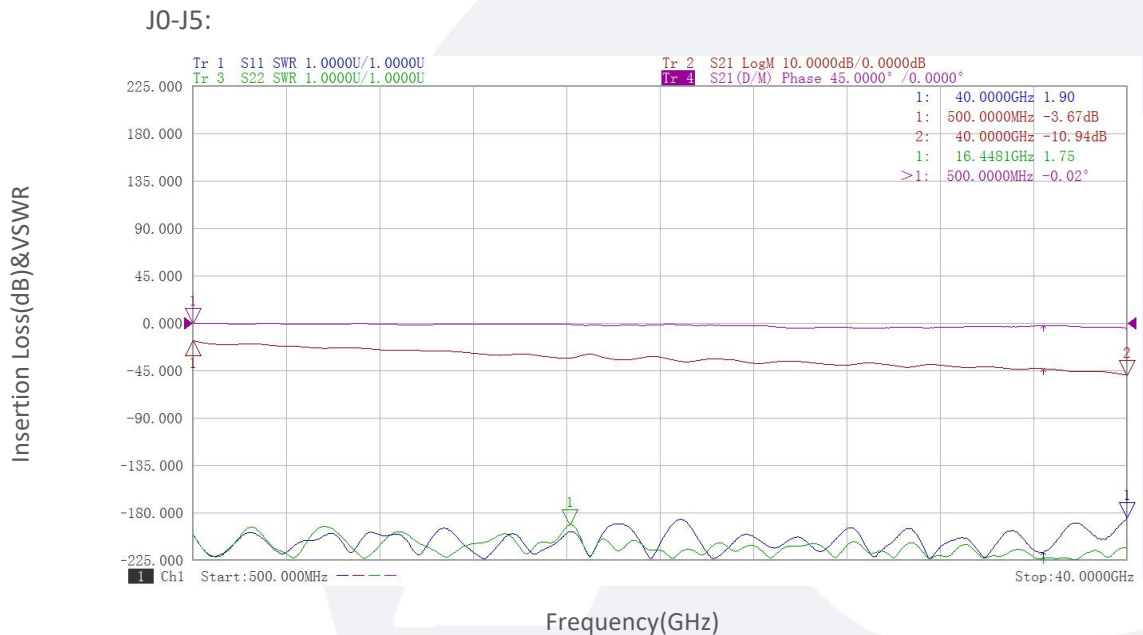
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典型曲线 Typical Performance Data:

Insertion Loss&VSWR vs Frequency



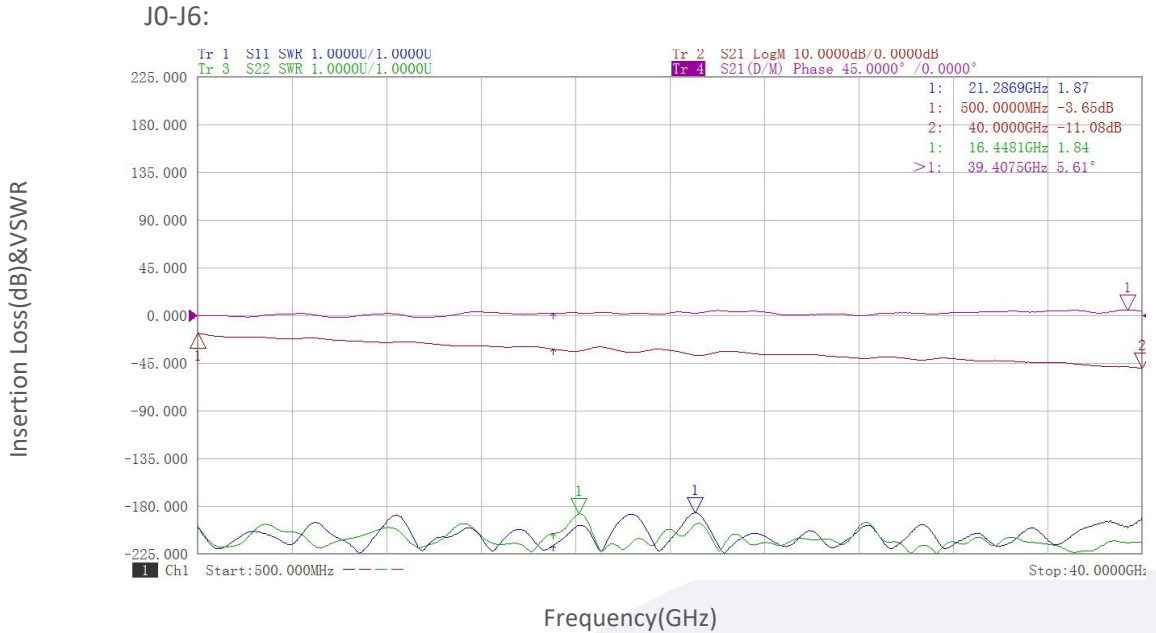
Insertion Loss&VSWR vs Frequency



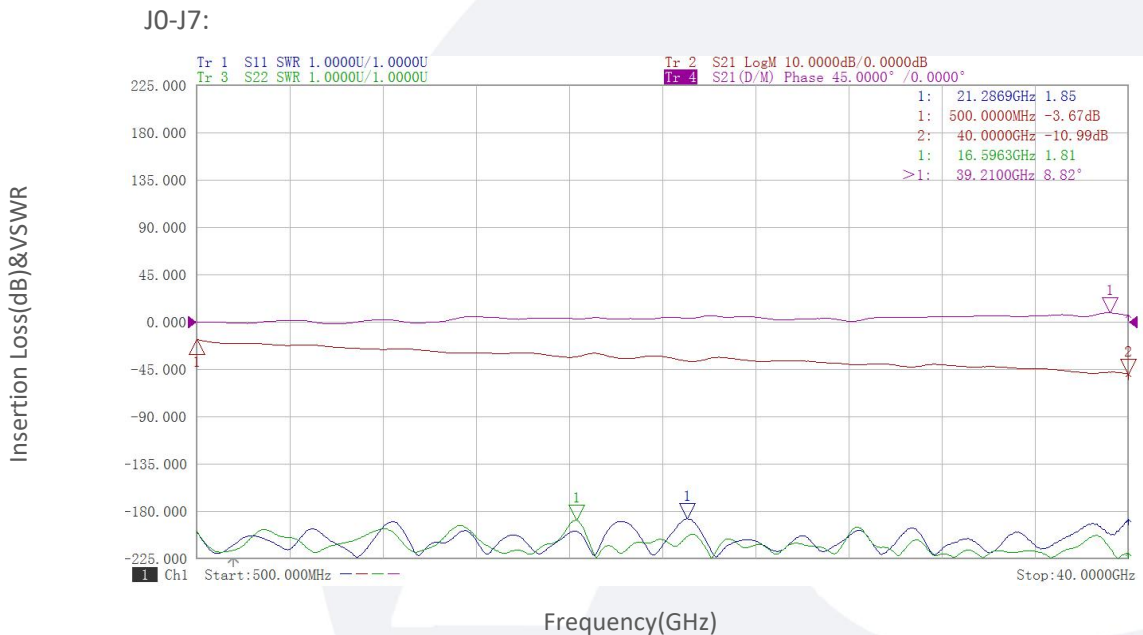
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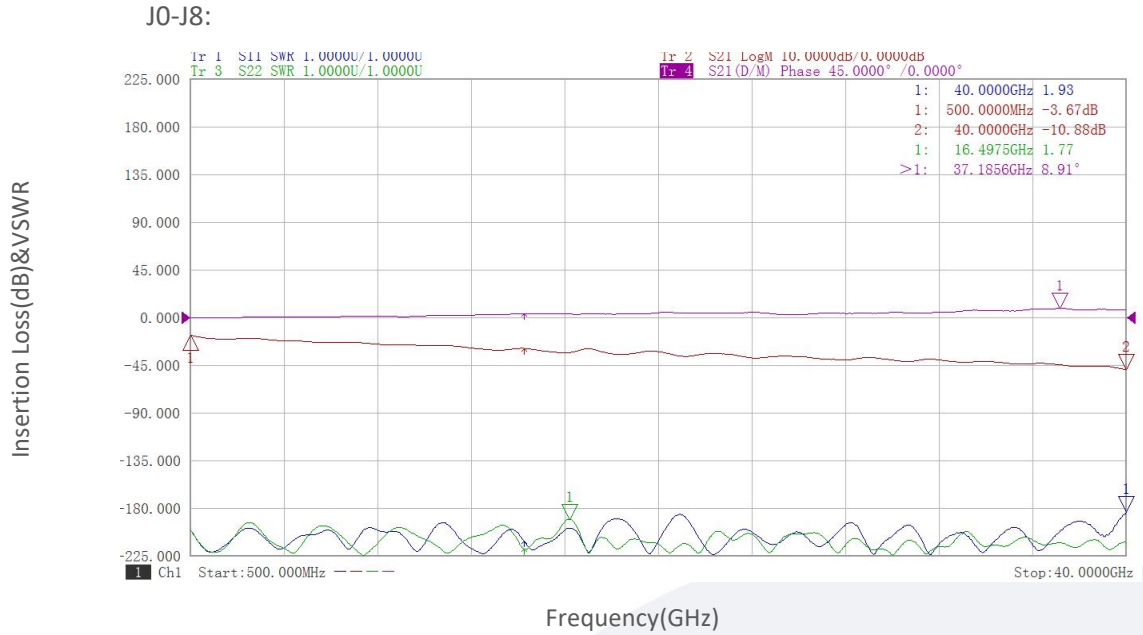
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