

December 12, 2022

NJG1809ME7
SP4T Switch
S-parameter simulation data

Standard Condition

Ver.1

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■ SIMULATION CONDITION

- $f=100\text{MHz}\sim 6\text{GHz}$, Step=10MHz
- $V_{DD}=2.75\text{V}$, $V_{CTL}=0/1.8\text{V}$
- $T_a=25^\circ\text{C}$,
- $Z_I=Z_S=50\Omega$

■ DATA

Touchstone (s5p) NJG1809ME7

No.	Path	File name
1	PC-P1	NJG1809_P1ON.s5p
2	PC-P2	NJG1809_P2ON.s5p
3	PC-P3	NJG1809_P3ON.s5p
4	PC-P4	NJG1809_P4ON.s5p

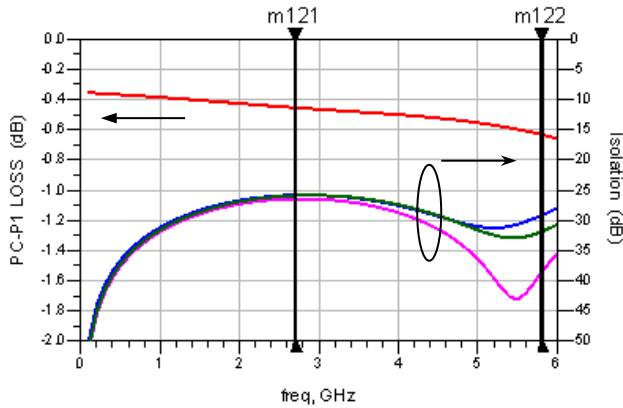
■ PORT DEFINITION

Port No.	Terminal
1	P1 terminal
2	P2 terminal
3	P3 terminal
4	P4 terminal
5	PC terminal



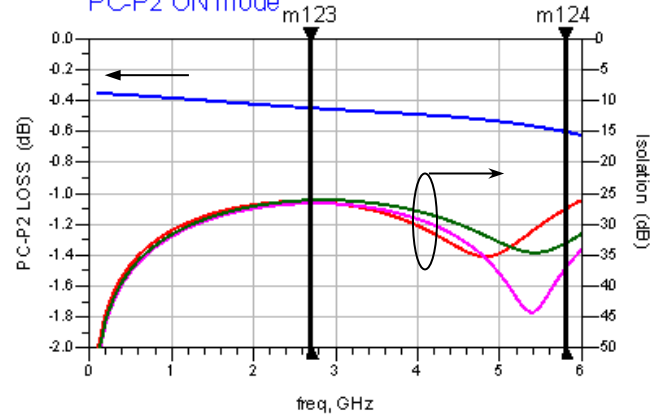
m121 freq=2.700GHz dB(SP1.SP.S(5,1))=-0.455 dB(SP1.SP.S(5,2))=-25.840 dB(SP1.SP.S(5,3))=-26.443 dB(SP1.SP.S(5,4))=-25.905	m122 freq=5.800GHz dB(SP1.SP.S(5,1))=-0.633 dB(SP1.SP.S(5,2))=-29.175 dB(SP1.SP.S(5,3))=-38.626 dB(SP1.SP.S(5,4))=-31.889
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PC-P1 ON mode



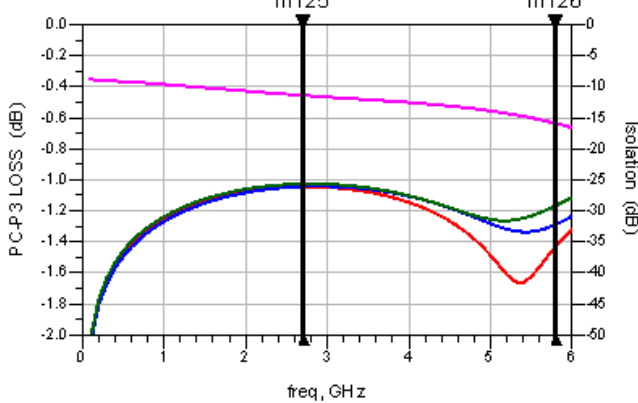
m123 freq=2.700GHz dB(SP1.SP.S(5,2))=-0.449 dB(SP1.SP.S(5,1))=-26.375 dB(SP1.SP.S(5,3))=-26.610 dB(SP1.SP.S(5,4))=-26.124	m124 freq=5.800GHz dB(SP1.SP.S(5,2))=-0.602 dB(SP1.SP.S(5,1))=-27.534 dB(SP1.SP.S(5,3))=-37.112 dB(SP1.SP.S(5,4))=-33.067
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PC-P2 ON mode



m125 freq=2.700GHz dB(SP1.SP.S(5,3))=-0.456 dB(SP1.SP.S(5,1))=-26.113 dB(SP1.SP.S(5,2))=-26.098 dB(SP1.SP.S(5,4))=-25.683	m126 freq=5.800GHz dB(SP1.SP.S(5,3))=-0.637 dB(SP1.SP.S(5,1))=-35.764 dB(SP1.SP.S(5,2))=-32.208 dB(SP1.SP.S(5,4))=-29.170
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PC-P3 ON mode



m127 freq=2.700GHz dB(SP1.SP.S(5,4))=-0.449 dB(SP1.SP.S(5,1))=-26.127 dB(SP1.SP.S(5,2))=-26.172 dB(SP1.SP.S(5,3))=-26.495	m128 freq=5.800GHz dB(SP1.SP.S(5,4))=-0.603 dB(SP1.SP.S(5,1))=-34.427 dB(SP1.SP.S(5,2))=-33.445 dB(SP1.SP.S(5,3))=-27.573
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PC-P4 ON mode

