

**Series:** QSS/QTS-RA Series

**Description:** , 0.635mm (0.0250") Pitch, Two Row, Vertical to Right Angle Connection

## Frequency Domain Data Summary

[Reference Appendix C of complete report for full description of test boards]

### ROW 1

Table 1 - Single-Ended Signaling System Performance (row 1)				
Parameter	Conf.	Source	Victim	
Insertion Loss	sp3-57il	probe 3=QSS-DV_57, probe 5=QTS-RA_57		-3dB @ 4.5 GHz
Return Loss	sp3-57rl	probe 3=QSS-DV_57, probe 5=QTS-RA_57		≤ -5dB to 4.5 GHz
Near-End Crosstalk	sp3-55nw53	QSS-DV_55	QSS-DV_53	≤ -6dB to 4.5 GHz
	sp3-57nb53	QSS-DV_57	QSS-DV_53	≤ -24dB to 4.5 GHz
	sp3-98nx97	QSS-DV_98	QSS-DV_97	≤ -38dB to 4.5 GHz
Far-End Crosstalk	sp3-55fw53	QSS-DV_55	QTS-RA_53	≤ -15dB to 4.5 GHz
	sp3-57fb53	QSS-DV_57	QTS-RA_53	≤ -8dB to 4.5 GHz
	sp3-98fx97	QSS-DV_98	QTS-RA_97	≤ -36dB to 4.5 GHz

Table 2 - Differential Signaling System Performance (row 1)				
Parameter	Conf.	Source	Victim	
Insertion Loss	sp34-911il	probe34=QSS-DV_9-11, probe56=QTS-RA_9-11		-3dB @ 4.4 GHz
Return Loss	sp34-911rl	probe34=QSS-DV_9-11, probe56=QTS-RA_9-11		≤ -5dB to 4.4 GHz
Near-End Crosstalk	sp34-79nw35	QSS-DV_7-9	QSS-DV_3-5	≤ -19dB to 4.4 GHz
	sp34-911nb35	QSS-DV_9-11	QSS-DV_3-5	≤ -24dB to 4.4 GHz
	sp34-9698nx9597	QSS-DV_96-98	QSS-DV_95-97	≤ -46dB to 4.4 GHz
Far-End Crosstalk	sp34-79fw35	QSS-DV_7-9	QTS-RA_3-5	≤ -25dB to 4.4 GHz
	sp34-911fb35	QSS-DV_9-11	QTS-RA_3-5	≤ -20dB to 4.4 GHz
	sp34-9698fx9597	QSS-DV_96-98	QTS-RA_95-97	≤ -45dB to 4.4 GHz

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## ROW 2

Table 3 - Single-Ended Signaling System Performance (row 2)				
Parameter	Conf.	Source	Victim	
<b>Insertion Loss</b>	sp3-78il	probe 3=QSS-DV_78 probe 5=QTS-RA_78		-3dB @ 5.4 GHz
<b>Return Loss</b>	sp3-78rl	probe 3=QSS-DV_78 probe 5=QTS-RA_78		≤ -12dB to 5.4 GHz
<b>Near-End Crosstalk</b>	sp3-86nw84	QSS-DV_86	QSS-DV_84	≤ -8dB to 5.4 GHz
	sp3-78nb74	QSS-DV_78	QSS-DV_74	≤ -12dB to 5.4 GHz
	sp3-98nx97	QSS-DV_98	QSS-DV_97	≤ -35dB to 5.4 GHz
<b>Far-End Crosstalk</b>	sp3-86fw84	QSS-DV_86	QTS-RA_84	≤ -7dB to 5.4 GHz
	sp3-78fb74	QSS-DV_78	QTS-RA_74-76	≤ -9dB to 5.4 GHz
	sp3-98fx97	QSS-DV_98	QTS-RA_97	≤ -34dB to 5.4 GHz

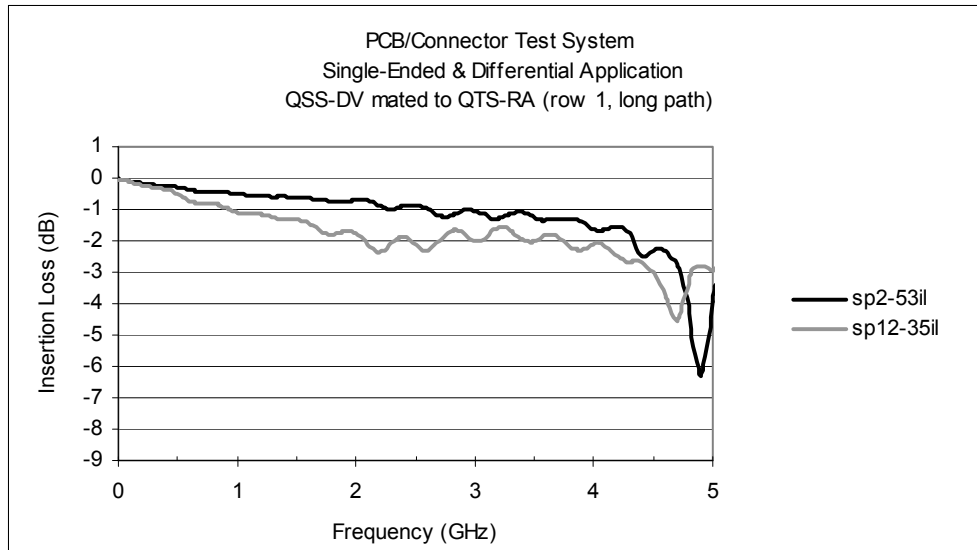
Table 4- Differential Signaling System Performance (row 2)				
Parameter	Conf.	Source	Victim	
<b>Insertion Loss</b>	sp34-1820il	probe 34=QSS-DV_18-20 probe 56=QTS-RA_18-20		-3dB @ 5.7 GHz
<b>Return Loss</b>	sp34-1820rl	probe 34=QSS-DV_18-20 probe 56=QTS-RA_18-20		≤ -7dB to 5.7 GHz
<b>Near-End Crosstalk</b>	sp34-1416nw1820	QSS-DV_14-16	QSS-DV_18-20	≤ -19dB to 5.7 GHz
	sp34-1820nb1214	QSS-DV_18-20	QSS-DV_12-14	≤ -26dB to 5.7 GHz
	sp34-9698nx9597	QSS-DV_96-98	QSS-DV_95-97	≤ -46dB to 5.7 GHz
<b>Far-End Crosstalk</b>	sp34-1416fw1820	QSS-DV_14-16	QTS-RA_18-20	≤ -23dB to 5.7 GHz
	sp34-1820fb1214	QSS-DV_18-20	QTS-RA_12-14	≤ -22dB to 5.7 GHz
	sp34-9698fx9597	QSS-DV_96-98	QTS-RA_95-97	≤ -40dB to 5.7 GHz

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### Bandwidth Chart – Single-Ended & Differential Insertion Loss

Row 1, long path



Row 2, short path

