

Series: QSS/QTS-RA Series

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

Time Domain Data Summary

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

ROW 1

Table 5 - Single-Ended Impedance (Ω) – (row 1)							
Signal Risetime	35±5ps	50 ps	100 ps	250 ps	500 ps	750 ps	1 ns
Maximum Impedance	57.3	53.3	52.2	52.0	51.2	50.5	50.0
Minimum Impedance	39.1	40.9	43.1	47.0	48.9	49.6	49.7

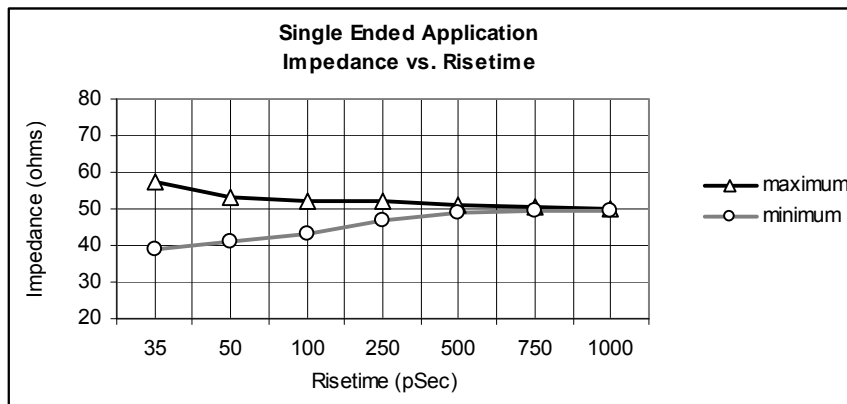
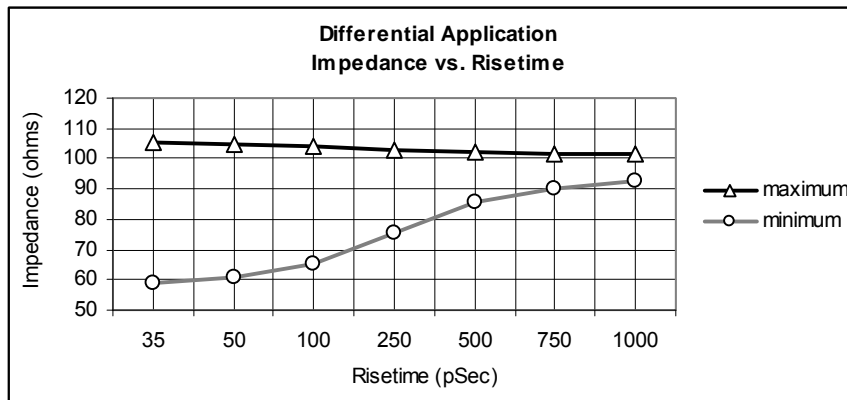


Table 6 - Differential Impedance (Ω) - (row 1)							
Signal Risetime	35±5ps	50 ps	100 ps	250 ps	500 ps	750 ps	1 ns
Maximum Impedance	105.1	104.4	104.1	103.0	102.1	101.7	101.6
Minimum Impedance	58.8	61.0	65.0	75.7	85.7	90.3	92.8

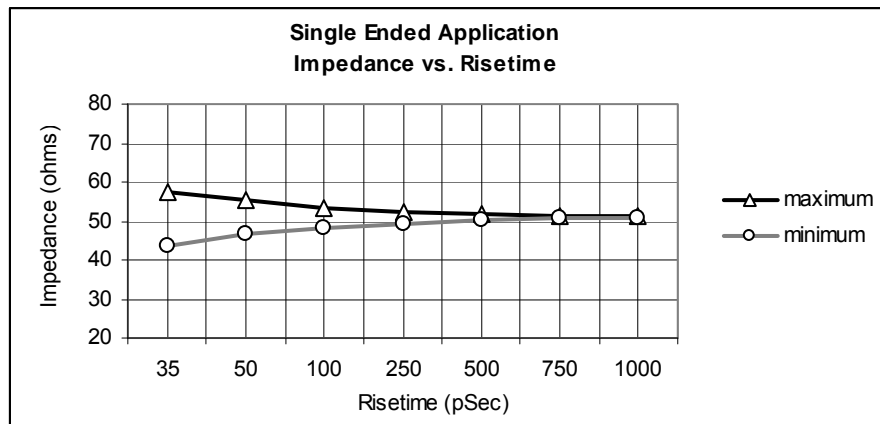


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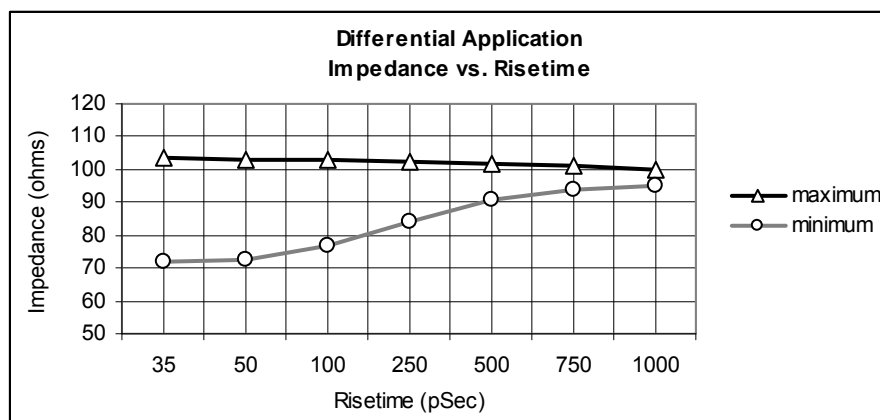
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ROW 2

Signal Risetime	35±5ps	50 ps	100 ps	250 ps	500 ps	750 ps	1 ns
Maximum Impedance	57.4	55.4	53.1	52.1	52.0	51.4	51.1
Minimum Impedance	43.6	46.7	48.2	49.3	50.5	50.8	50.7



Signal Risetime	35±5ps	50 ps	100 ps	250 ps	500 ps	750 ps	1 ns
Maximum Impedance	103.6	103.3	103.0	102.4	101.8	101.1	100.1
Minimum Impedance	71.6	72.8	76.6	83.9	90.7	93.6	95.3



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Table 9 - Single-Ended Crosstalk (%), row 1

Input (t _r)		Source	Victim	35±5ps	50ps	100ps	250ps	500ps	750ps	1ns
N E X T	SE2 to SE1	QSS-DV_55	QSS-DV_53	20.8	20.0	19.0	13.7	8.5	6.1	4.8
	SE4 to SE3	QSS-DV_57	QSS-DV_53	4.6	3.1	2.5	1.9	1.2	< 1.0%	< 1.0%
	SE6 to SE5	QSS-DV_98	QSS-DV_97	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
F E X T	SE2 to SE1	QSS-DV_55	QTS-RA_53	8.4	5.8	3.5	1.4	< 1.0%	< 1.0%	< 1.0%
	SE4 to SE3	QSS-DV_57	QTS-RA_53	6.7	4.8	3.0	1.3	< 1.0%	< 1.0%	< 1.0%
	SE6 to SE5	QSS-DV_98	QTS-RA_97	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%

Table 10 - Differential Crosstalk (%) row 1

Input (t _r)		Source	Victim	35±5ps	50ps	100ps	250ps	500ps	750ps	1ns
N E X T	DP2 to DP1	QSS-DV_7-9	QSS-DV_3-5	6.0	5.8	5.3	3.9	2.6	1.9	1.5
	DP4 to DP3	QSS-DV_9-11	QSS-DV_3-5	1.0	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
	DP6 to DP5	QSS-DV_96-98	QSS-DV_95-97	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
F E X T	DP2 to DP1	QSS-DV_7-9	QTS-RA_3-5	3.1	2.2	1.8	1.2	< 1.0%	< 1.0%	< 1.0%
	DP4 to DP3	QSS-DV_9-11	QTS-RA_3-5	1.2	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
	DP6 to DP5	QSS-DV_96-98	QTS-RA_95-97	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%

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Table 11 - Single-Ended Crosstalk (%), row 2

Input (t _r)		Source	Victim	35±5ps	50ps	100ps	250ps	500ps	750ps	1ns
N E X T	SE2 to SE1	QSS-DV_86	QSS-DV_84	20.1	17.9	15.0	10.1	6.4	4.6	3.6
	SE4 to SE3	QSS-DV_78	QSS-DV_74	7.1	5.2	3.3	2.6	1.8	1.3	1.0
	SE6 to SE5	QSS-DV_98	QSS-DV_97	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
F E X T	SE2 to SE1	QSS-DV_86	QTS-RA_84	15.1	11.3	7.1	3.2	1.7	1.2	< 1.0%
	SE4 to SE3	QSS-DV_78	QTS-RA_74	< 1.0%	8.6	5.5	2.4	1.3	< 1.0%	< 1.0%
	SE6 to SE5	QSS-DV_98	QTS-RA_97	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%

Table 12 - Differential Crosstalk (%), row 2

Input (t _r)		Source	Victim	35±5ps	50ps	100ps	250ps	500ps	750ps	1ns
N E X T	DP2 to DP1	QSS-DV_14-16	QSS-DV_18-20	4.8	4.5	4.0	2.8	1.8	1.3	1.1
	DP4 to DP3	QSS-DV_18-20	QSS-DV_12-14	1.6	1.2	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
	DP6 to DP5	QSS-DV_96-98	QSS-DV_95-97	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
F E X T	DP2 to DP1	QSS-DV_14-16	QTS-RA_18-20	4.1	2.6	1.5	< 1.0%	< 1.0%	< 1.0%	< 1.0%
	DP4 to DP3	QSS-DV_18-20	QTS-RA_12-14	3.5	2.4	1.6	< 1.0%	< 1.0%	< 1.0%	< 1.0%
	DP6 to DP5	QSS-DV_96-98	QTS-RA_95-97	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%

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Table 13 - Propagation Delay (row 1)			
Configuration		Signal Path	(Mated Connector Only)
Single-Ended	SE4	probe 3=QSS-DV_57, probe 5=QTS-RA_57	108ps
Differential	DP4	probe34=QSS-DV_9-11, probe56=QTS-RA_9-11	108ps

Table 14 - Propagation Delay (row 2)			
Configuration		Signal Path	(Mated Connector Only)
Single-Ended	SE4	probe 3=QSS-DV_78 probe 5=QTS-RA_78	94ps
Differential	DP4	probe 34=QSS-DV_18-20 probe 56=QTS-RA_18-20	83 ps