

Series: QSS-RA/QTS-RA Series

Description: , 0.635mm (0.0250") Pitch, Two Row, Right Angle 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	60.1	54.9	52.6	51.8	51.2	51.0	50.8
Minimum Impedance	35.2	37.5	39.5	44.4	46.2	47.4	48.1

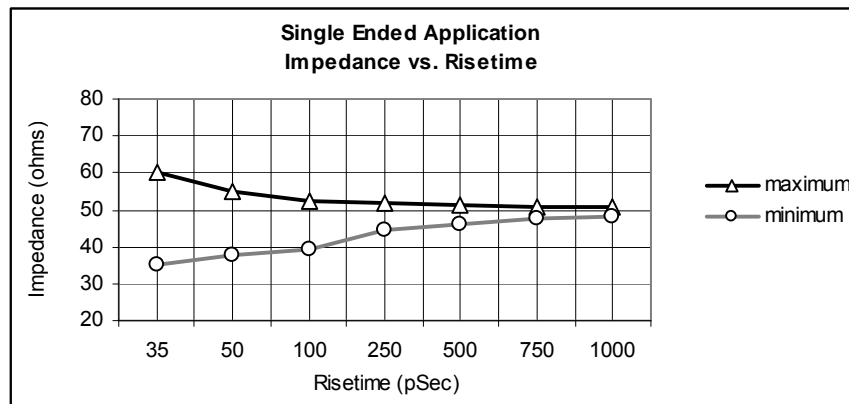
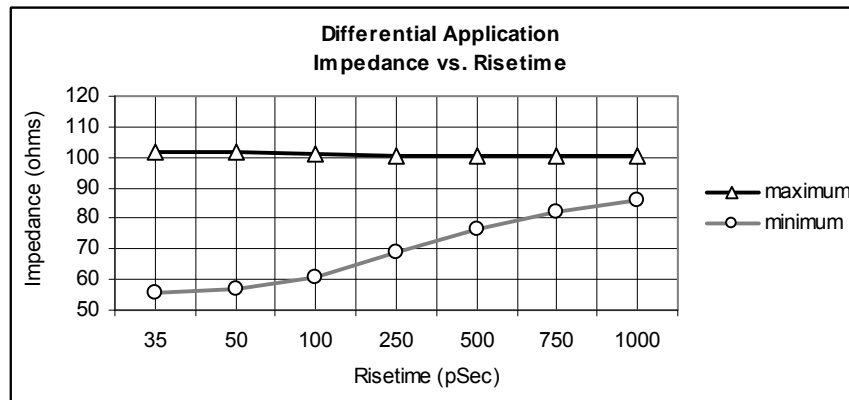


Table 6 - Differential Impedance (Ω) - (row 1)							
Signal Risetime	35±5ps	50 ps	100 ps	250 ps	500 ps	750 ps	1 ns
Maximum Impedance	101.9	101.5	101.0	100.5	100.5	100.4	100.4
Minimum Impedance	55.8	56.9	60.9	68.7	76.6	82.1	85.7

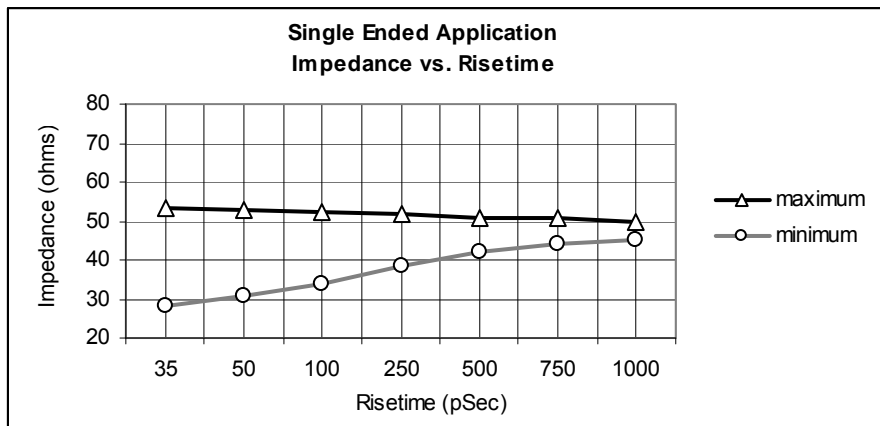


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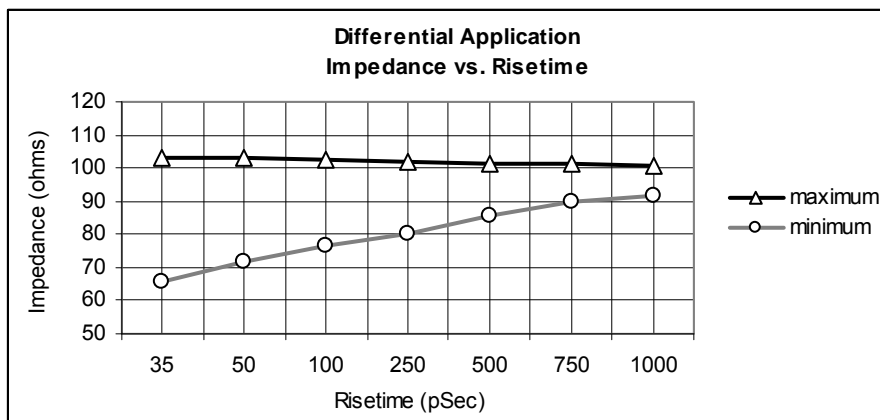
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ROW 2

Signal Risetime	35±5ps	50 ps	100 ps	250 ps	500 ps	750 ps	1 ns
Maximum Impedance	53.4	52.9	52.5	51.6	50.8	50.6	49.8
Minimum Impedance	28.2	30.8	33.8	38.6	42.1	43.9	45.2



Signal Risetime	35±5ps	50 ps	100 ps	250 ps	500 ps	750 ps	1 ns
Maximum Impedance	103.2	102.9	102.6	102.1	101.5	101.1	101.0
Minimum Impedance	65.5	71.7	76.3	80.0	85.8	89.6	91.9



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

Input (t _r)		Source	Victim	35±5ps	50ps	100ps	250ps	500ps	750ps	1ns
NEXT	SE2 to SE1	QSS-RA_43	QSS-RA_41	21.4	19.7	19.0	16.7	11.4	8.4	6.7
	SE4 to SE3	QSS-RA_47	QSS-RA_43	5.2	3.2	2.4	1.8	1.3	< 1.0%	< 1.0%
	SE6 to SE5	QSS-RA_4	QSS-RA_3	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
FEXT	SE2 to SE1	QSS-RA_43	QTS-RA_41	7.4	4.6	2.3	2.0	< 1.0%	< 1.0%	< 1.0%
	SE4 to SE3	QSS-RA_47	QTS-RA_43	6.6	4.7	3.0	1.5	< 1.0%	< 1.0%	< 1.0%
	SE6 to SE5	QSS-RA_4	QTS-RA_3	< 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
NEXT	DP2 to DP1	QSS-RA_87-89	QSS-RA_83-85	6.1	5.4	5.2	4.7	3.5	2.8	2.2
	DP4 to DP3	QSS-RA_91-93	QSS-RA_85-87	1.0	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
	DP6 to DP5	QSS-RA_4-6	QSS-RA_3-5	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
FEXT	DP2 to DP1	QSS-RA_87-89	QTS-RA_83-85	4.3	3.2	2.3	1.8	1.3	< 1.0%	< 1.0%
	DP4 to DP3	QSS-RA_91-93	QTS-RA_85-87	1.3	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
	DP6 to DP5	QTS-RA_4-6	QTS-RA_3-5	< 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-RA_24	QSS-RA_22	18.5	16.5	15.2	12.4	7.7	5.4	4.3
	SE4 to SE3	QSS-RA_24	QSS-RA_20	10.8	9.0	6.9	3.5	2.2	1.5	1.2
	SE6 to SE5	QSS-RA_4	QSS-RA_3	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
F E X T	SE2 to SE1	QSS-RA_24	QTS-RA_22	12.0	10.1	8.6	8.0	3.7	1.9	1.3
	SE4 to SE3	QSS-RA_24	QTS-RA_20	12.6	10.4	7.7	4.9	2.4	1.4	1.0
	SE6 to SE5	QSS-RA_4	QTS-RA_3	< 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-RA_74-76	QSS-RA_70-72	6.6	5.0	4.3	3.2	2.0	1.5	1.2
	DP4 to DP3	QSS-RA_74-76	QSS-RA_68-70	2.3	1.5	1.0	< 1.0%	< 1.0%	< 1.0%	< 1.0%
	DP6 to DP5	QSS-RA_4-6	QSS-RA_3-5	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%	< 1.0%
F E X T	DP2 to DP1	QSS-RA_74-76	QTS-RA_70-72	5.2	3.5	2.2	1.1	< 1.0%	< 1.0%	< 1.0%
	DP4 to DP3	QSS-RA_74-76	QTS-RA_68-70	3.9	3.1	2.3	1.1	< 1.0%	< 1.0%	< 1.0%
	DP6 to DP5	QSS-RA_4-6	QTS-RA_3-5	< 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-RA_47, probe 5=QTS-RA_47	162ps
Differential	DP4	probe34=QSS-RA_91-93, probe56=QTS-RA_91-93	156ps

Table 14 - Propagation Delay (row 2)			
Configuration		Signal Path	(Mated Connector Only)
Single-Ended	SE4	probe 3=QSS-RA_24 probe 5=QTS-RA_24	139ps
Differential	DP4	probe 34=QSS-RA_74-76 probe 56=QTS-RA_74-76	102 ps