

Series: QSS-RA/QTS-RA Series

Description: , 0.635mm (0.0250") Pitch, Two Row, Right Angle 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	rc3-47il	probe 3=QSS-RA_47, probe 5=QTS-RA_47		-3dB @ 4.2 GHz
Return Loss	rc3-47rl	probe 3=QSS-RA_47, probe 5=QTS-RA_47		≤ -3dB to 4.2 GHz
Near-End Crosstalk	sp3-43nw41	QSS-RA_43	QSS-RA_41	≤ -6dB to 4.2 GHz
	sp3-47nb43	QSS-RA_47	QSS-RA_43	≤ -22dB to 4.2 GHz
	sp3-3nx4	QSS-RA_3	QSS-RA_4	≤ -32dB to 4.2 GHz
Far-End Crosstalk	sp3-43fw41	QSS-RA_43	QTS-RA_41	≤ -12dB to 4.2 GHz
	sp3-47fb43	QSS-RA_47	QTS-RA_43	≤ -15dB to 4.2 GHz
	sp3-3fx4	QSS-RA_3	QTS-RA_4	≤ -31dB to 4.2 GHz

Table 2 - Differential Signaling System Performance (row 1)				
Parameter	Conf.	Source	Victim	
Insertion Loss	rc34-9193il	probe34=QSS-RA_91-93, probe56=QTS-RA_91-93		-3dB @ 3.1 GHz
Return Loss	rc34-9193rl	probe34=QSS-RA_91-93, probe56=QTS-RA_91-93		≤ -5dB to 3.1 GHz
Near-End Crosstalk	sp34-8789nw8385	QSS-RA_87-89	QSS-RA_83-85	≤ -19dB to 3.1 GHz
	sp34-9193nb8587	QSS-RA_91-93	QSS-RA_85-87	≤ -40dB to 3.1 GHz
	sp34-35nx46	QSS-RA_3-5	QSS-RA_4-6	≤ -47dB to 3.1 GHz
Far-End Crosstalk	sp34-8789fw8385	QSS-RA_87-89	QTS-RA_83-85	≤ -28dB to 3.1 GHz
	sp34-9193fb8587	QSS-RA_91-93	QTS-RA_85-87	≤ -26dB to 3.1 GHz
	sp34-35fx46	QSS-RA_3-5	QTS-RA_4-6	≤ -49dB to 3.1 GHz

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ROW 2

Table 3 - Single-Ended Signaling System Performance (row 2)				
Parameter	Conf.	Source	Victim	
Insertion Loss	rc3-24il	probe 3=QSS-RA_24 probe 5=QTS-RA_24		-3dB @ 3.7 GHz
Return Loss	rc3-24rl	probe 3=QSS-RA_24 probe 5=QTS-RA_24		≤ -7dB to 3.7 GHz
Near-End Crosstalk	sp3-24nw22	QSS-RA_24	QSS-RA_22	≤ -7dB to 3.7 GHz
	sp3-24nb20	QSS-RA_24	QSS-RA_20	≤ -7dB to 3.7 GHz
	sp3-3nx4	QSS-RA_3	QSS-RA_4	≤ -32dB to 3.7 GHz
Far-End Crosstalk	sp3-24fw22	QSS-RA_24	QTS-RA_22	≤ -10dB to 3.7 GHz
	sp3-24fb20	QSS-RA_24	QTS-RA_20	≤ -8dB to 3.7 GHz
	sp3-3fx4	QSS-RA_3	QTS-RA_4	≤ -31dB to 3.7 GHz

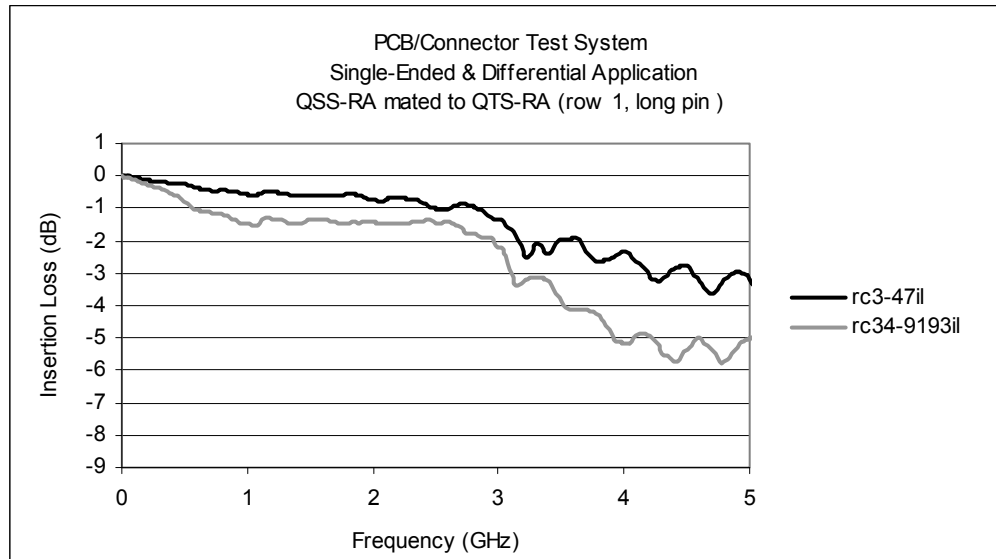
Table 4- Differential Signaling System Performance (row 2)				
Parameter	Conf.	Source	Victim	
Insertion Loss	rc34-7476il	probe 34=QSS-RA_74-76 probe 56=QTS-RA_74-76		-3dB @ 4.1 GHz
Return Loss	rc34-7476rl	probe 34=QSS-RA_74-76 probe 56=QTS-RA_74-76		≤ -7dB to 4.1 GHz
Near-End Crosstalk	sp34-7476nw7072	QSS-RA_74-76	QSS-RA_70-72	≤ -18dB to 4.1 GHz
	sp34-7476nb6870	QSS-RA_74-76	QSS-RA_68-70	≤ -22dB to 4.1 GHz
	sp34-35nx46	QSS-RA_3-5	QSS-RA_4-6	≤ -44dB to 4.1 GHz
Far-End Crosstalk	sp34-7476fw7072	QSS-RA_74-76	QTS-RA_70-72	≤ -23dB to 4.1 GHz
	sp34-7476fb6870	QSS-RA_74-76	QTS-RA_68-70	≤ -18dB to 4.1 GHz
	sp34-35fx46	QSS-RA_3-5	QTS-RA_4-6	≤ -46dB to 4.1 GHz

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Bandwidth Chart – Single-Ended & Differential Insertion Loss

Row 1, long path



Row 2, short path

