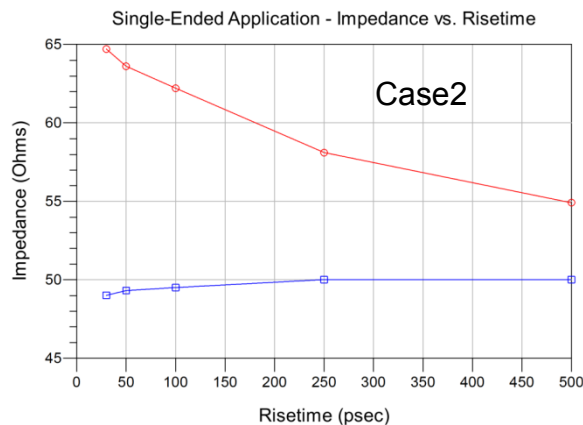
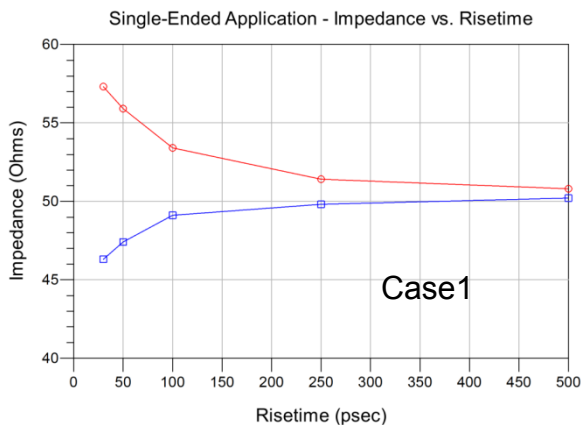


Series: QRM8-RA/QRF8-DV

Description: Q Rate® Slim Body Ground Plane Connector, R/A Terminal to Vertical Socket

Time Domain Data Summary

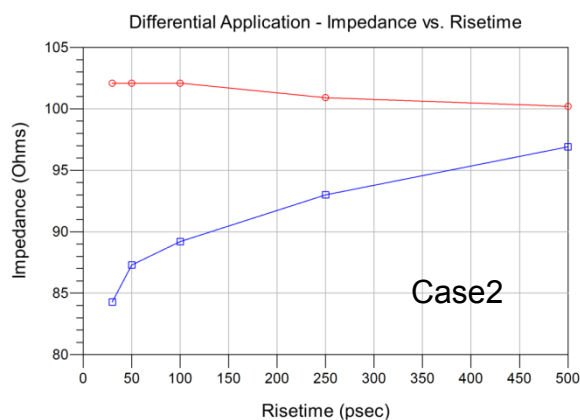
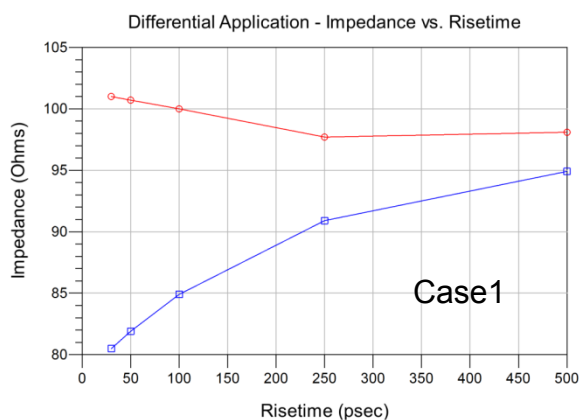
Table 3 – Single-End Impedance (Ω) Case 1 = Short Row; Case 2 = Long Row						
Case	Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
1	Maximum Impedance	57.3	55.9	53.4	51.4	50.8
	Minimum Impedance	46.3	47.4	49.1	49.8	50.2
2	Maximum Impedance	64.7	63.6	62.2	58.1	54.9
	Minimum Impedance	49.0	49.3	49.5	50.0	50.0



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Table 4 - Differential Impedance (Ω) Case 1 = Short Row; Case 2 = Long Row						
Case	Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
1	Maximum Impedance	101.0	100.7	100.0	97.7	98.1
	Minimum Impedance	80.5	81.9	84.9	90.9	94.9
2	Maximum Impedance	102.1	102.1	102.1	100.9	100.2
	Minimum Impedance	84.3	87.3	89.2	93.0	96.9



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Table 5 - Single-Ended Crosstalk (%)
Case 1 = Short Row; Case 2 = Long Row

Case	Input(tr)	Config	Driver	Receiver	30ps	50 ps	100 ps	250 ps	500 ps
1	NEXT	GAQG	QRM8_RA_36	QRM8_RA_38	19.56	16.91	14.48	7.94	4.28
		GAGQG	QRM8_RA_38	QRM8_RA_42	2.23	1.80	1.32	0.71	0.43
	FEXT	GAQG	QRM8_RA_36	QRF8_DV_38	4.68	3.35	2.56	1.29	0.75
		GAGQG	QRM8_RA_38	QRF8_DV_42	3.07	1.95	1.02	0.45	0.19
2	NEXT	GAQG	QRM8_RA_35	QRM8_RA_37	18.76	17.82	16.57	10.21	5.76
		GAGQG	QRM8_RA_37	QRM8_RA_41	2.23	1.68	1.30	0.86	0.62
		Xrow	QRM8_RA_37	QRM8_RA_38	0.28	0.11	<0.1	<0.1	<0.1
	FEXT	GAQG	QRM8_RA_35	QRF8_DV_37	5.66	4.42	3.72	2.50	1.52
		GAGQG	QRM8_RA_37	QRF8_DV_41	2.30	1.50	0.80	0.38	0.22
		Xrow	QRM8_RA_37	QRF8_DV_38	0.25	0.14	<0.1	<0.1	<0.1

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Description: Q Rate® Slim Body Ground Plane Connector, R/A Terminal to Vertical Socket

Table 6 - Differential Crosstalk (%)
Case 1 = Short Row; Case 2 = Long Row

Case	Input(tr)	Config	Driver	Receiver	30ps	50 ps	100 ps	250 ps	500 ps
1	NEXT	GAAQQG	QRM8_RA_34,36	QRM8_RA_38,40	7.29	5.28	4.74	3.24	1.81
		GAAGQQG	QRM8_RA_36,38	QRM8_RA_42,44	0.57	0.34	0.17	0.17	0.13
	FEXT	GAAQQG	QRM8_RA_34,36	QRF8_DV_38,40	1.15	0.80	0.55	0.20	<0.1
		GAAGQQG	QRM8_RA_36,38	QRF8_DV_42,44	1.85	1.37	0.86	0.45	0.28
2	NEXT	GAAQQG	QRM8_RA_33,35	QRM8_RA_37,39	6.22	5.88	5.34	3.32	1.87
		GAAGQQG	QRM8_RA_35,37	QRM8_RA_41,43	0.54	0.34	0.26	0.16	<0.1
		Xrow	QRM8_RA_35,37	QRM8_RA_36,38	<0.1	<0.1	<0.1	<0.1	<0.1
	FEXT	GAAQQG	QRM8_RA_33,35	QRF8_DV_37,39	0.73	0.44	0.30	0.12	<0.1
		GAAGQQG	QRM8_RA_35,37	QRF8_DV_41,43	0.48	0.29	0.15	<0.1	<0.1
		Xrow	QRM8_RA_35,37	QRF8_DV_36,38	<0.1	<0.1	<0.1	<0.1	<0.1

Series: QRM8-RA/QRF8-DV**Description:** Q Rate® Slim Body Ground Plane Connector, R/A Terminal to Vertical Socket

Table 7 - Propagation Delay (Mated Connector) Case 1 = Short Row; Case 2 = Long Row		
Case 1	Single-Ended	65 ps
	Differential	57 ps
Case 2	Single-Ended	92 ps
	Differential	81 ps