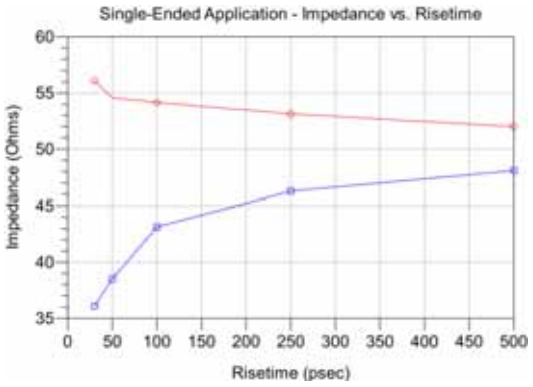
Series: QMS-RA/QFS (-04.25 lead style)
Description: Q2™ High-Speed Rugged Ground Plane Terminal/Socket Strip, 0.635mm Pitch, Right Angle to Vertical Board-to-Board

Time Domain Data Summary

Table 3 - Single-Ended Impedance (Ω) Case 1 = Short Row; Case 2 = Long Row						
Case	**Signal Rise-time**	**30ps**	**50ps**	**100ps**	**250ps**	**500ps**
1	**Maximum Impedance**	56.1	54.6	54.2	53.1	52.0
	Minimum Impedance	36.1	38.5	43.1	46.3	48.1
2	**Maximum Impedance**	57.3	56.6	55.8	54.3	52.4
	Minimum Impedance	36.1	37.1	39.9	44.0	46.8

Single-Ended Impedance - Case 1, Short Row



Single-Ended Impedance - Case 2, Long Row

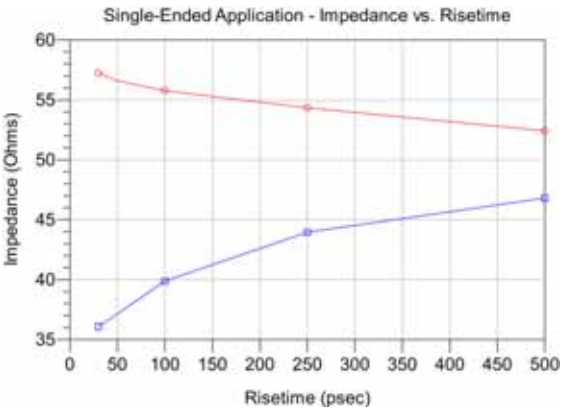


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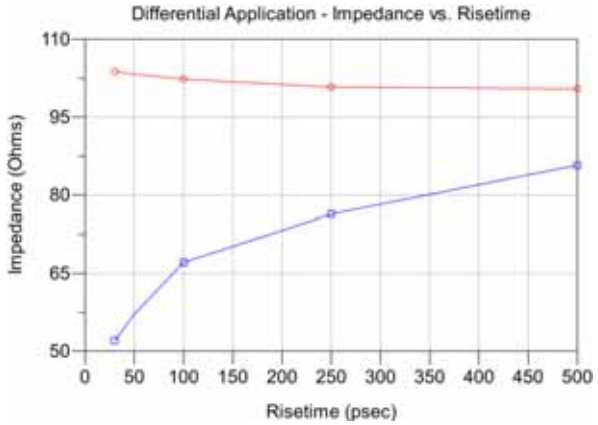
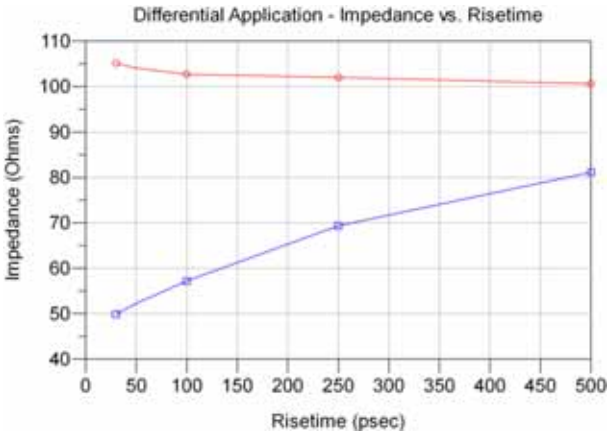
Table 4 - Differential Impedance (Ω) Case 1 = Short Row; Case 2 = Long Row						
Case	**Signal Rise-time**	**30ps**	**50ps**	**100ps**	**250ps**	**500ps**
1	**Maximum Impedance**	103.8	103.2	102.3	100.8	100.5
	Minimum Impedance	52.0	57.1	67.1	76.3	85.7
2	**Maximum Impedance**	105.1	104.1	102.7	102.0	100.6
	Minimum Impedance	49.9	52.3	57.2	69.4	81.1

Differential Impedance - Case 1, Short Row



Differential Impedance - Case 2, Long Row



Series: QMS-RA/QFS (-04.25 lead style)
Description: Q2™ High-Speed Rugged Ground Plane Terminal/Socket Strip, 0.635mm Pitch, Right Angle to Vertical Board-to-Board

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

Case	Input(t_r)		30ps	50ps	100ps	250ps	500ps
1	NEXT	GAQG	21.43	19.97	19.07	12.45	7.08
		GAGQG	2.43	1.95	1.73	1.14	0.68
		Xrow	0.39	0.22	0.10	<0.1	<0.1
	FEXT	GAQG	4.97	2.18	0.87	0.46	0.37
		GAGQG	2.35	1.48	0.67	0.18	0.12
		Xrow	0.38	0.27	0.15	<0.1	<0.1
2	NEXT	GAQG	22.22	20.63	19.80	14.96	8.93
		GAGQG	2.06	1.94	1.66	1.10	0.67
	FEXT	GAQG	2.35	1.48	0.67	0.18	0.12
		GAGQG	2.20	1.49	0.78	0.29	0.10

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

Case	Input(t_r)		30ps	50ps	100ps	250ps	500ps
1	NEXT	GAAQQG	6.51	6.20	5.83	4.06	2.42
		GAAGQQG	0.47	0.38	0.30	0.19	0.12
		Xrow	<0.1	<0.1	<0.1	<0.1	<0.1
	FEXT	GAAQQG	2.52	2.02	1.47	1.02	0.57
		GAAGQQG	0.36	0.16	0.11	<0.1	<0.1
		Xrow	<0.1	<0.1	<0.1	<0.1	<0.1
2	NEXT	GAAQQG	6.70	6.39	5.97	4.68	2.97
		GAAGQQG	0.51	0.39	0.28	0.18	0.11
	FEXT	GAAQQG	2.80	2.48	2.04	1.53	0.92
		GAAGQQG	0.40	0.24	0.15	<0.1	<0.1

Table 7 - Propagation Delay (Mated Connector)
Case 1 = Short Row; Case 2 = Long Row

Case 1	**Single-Ended**	86 ps
	Differential	81 ps
Case 2	**Single-Ended**	109 ps
	Differential	98 ps