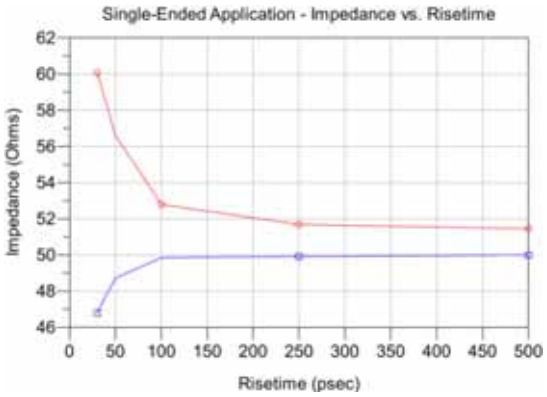
Series: HSEC8-RA
Description: High-Speed Edge Card Socket, Right Angle Surface-Mount, 0.8mm (0.0315") Pitch, Mated with 1.60mm (.062") thick load card

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**	60.1	56.6	52.8	51.7	51.4
	Minimum Impedance	46.8	48.7	49.8	49.9	50.0
2	**Maximum Impedance**	64.5	61.1	57.1	53.3	52.5
	Minimum Impedance	47.0	48.9	49.9	49.9	50.0

Single-Ended Impedance - Case 1, Short Row



Single-Ended Impedance - Case 2, Long Row

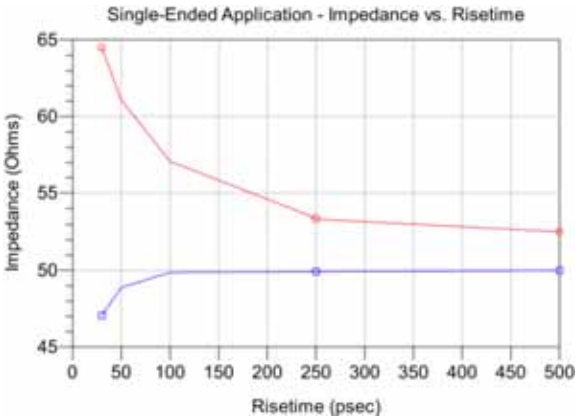


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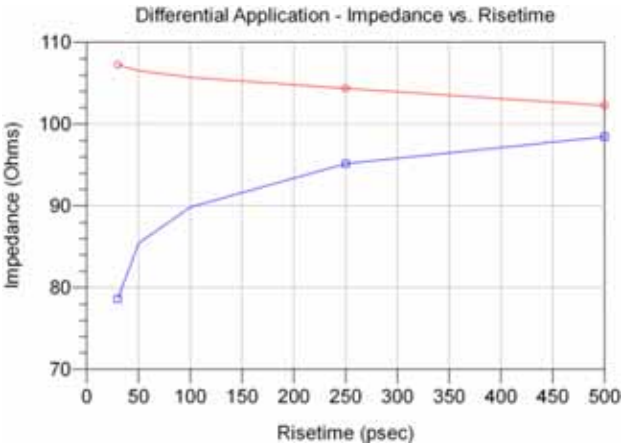
Table 4 - Differential Impedance (Ω) Case 1 = Short Row; Case 2 = Long Row						
Case	**Signal Rise-time**	**30ps**	**50ps**	**100ps**	**250ps**	**500ps**
1	**Maximum Impedance**	107.2	106.5	105.7	104.3	102.2
	Minimum Impedance	78.6	85.4	89.8	95.1	98.4
2	**Maximum Impedance**	105.8	104.5	103.1	101.7	100.8
	Minimum Impedance	75.5	81.6	84.8	91.7	96.3

Differential Impedance - Case 1, Short Row



Differential Impedance - Case 2, Long Row

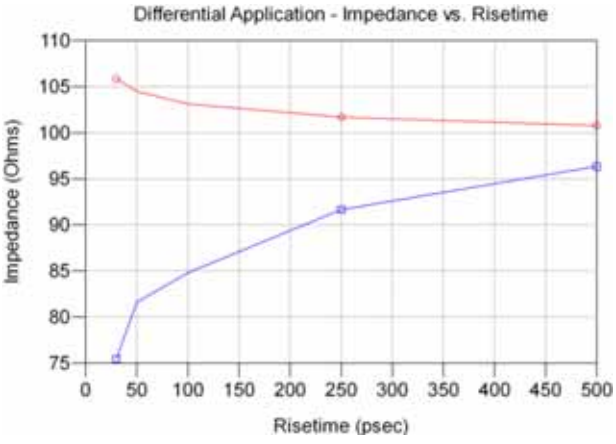


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Table 5 - Single-Ended Crosstalk (%)
Case 1 = Short Row; Case 2 = Long Row

Case	Input(t_r)		30ps	50ps	100ps	250ps	500ps
1	NEXT	GAQG	18.44	16.96	13.09	6.46	3.33
		GAGQG	2.65	2.21	1.58	0.76	0.43
		Xrow	2.41	1.97	1.35	0.74	0.42
	FEXT	GAQG	6.21	5.04	3.35	1.56	0.87
		GAGQG	2.77	2.04	1.15	0.50	0.26
		Xrow	0.65	0.32	0.18	0.11	<0.1
2	NEXT	GAQG	20.40	19.63	17.09	9.61	5.21
		GAGQG	2.86	2.03	1.77	1.02	0.56
	FEXT	GAQG	2.77	2.04	1.15	0.50	0.26
		GAGQG	2.22	1.70	0.92	0.45	0.23

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

Case	Input(t_r)		30ps	50ps	100ps	250ps	500ps
1	NEXT	GAQG	5.30	4.82	3.80	1.91	0.98
		GAGQG	0.35	0.33	0.23	0.10	<0.1
		Xrow	0.61	0.48	0.31	0.18	0.11
	FEXT	GAQG	0.79	0.51	0.29	0.11	<0.1
		GAGQG	0.52	0.26	<0.1	<0.1	<0.1
		Xrow	0.19	<0.1	<0.1	<0.1	<0.1
2	NEXT	GAQG	6.00	5.79	5.01	2.85	1.56
		GAGQG	0.56	0.34	0.27	0.16	<0.1
	FEXT	GAQG	1.27	0.80	0.35	0.20	0.13
		GAGQG	0.64	0.44	0.21	<0.1	<0.1

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

Case 1	**Single-Ended**	50 ps
	Differential	47 ps
Case 2	**Single-Ended**	69 ps
	Differential	63 ps