

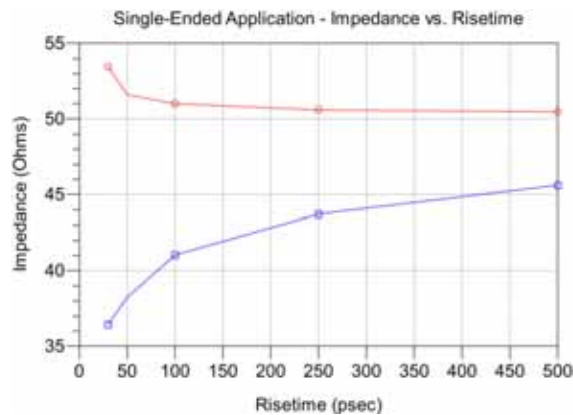
**Series:** QFS-RA/QMS (-06.75 lead style)

**Description:** Q2™ High-Speed Rugged Ground Plane Terminal/Socket Strip, 0.635mm Pitch, Right Angle to Vertical Board-to-Board

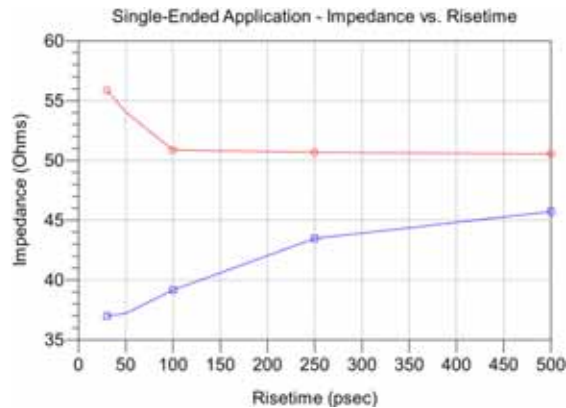
## Time Domain Data Summary

Table 3 - Single-Ended Impedance ( $\Omega$ )						
Case 1 = Short Row; Case 2 = Long Row						
Case	Signal Rise-time	30ps	50ps	100ps	250ps	500ps
1	Maximum Impedance	53.4	51.6	51.0	50.6	50.5
	Minimum Impedance	36.4	38.2	41.0	43.7	45.6
2	Maximum Impedance	55.9	54.1	50.9	50.7	50.5
	Minimum Impedance	37.0	37.2	39.2	43.5	45.7

### Single-Ended Impedance - Case 1, Short Row



### Single-Ended Impedance - Case 2, Long Row

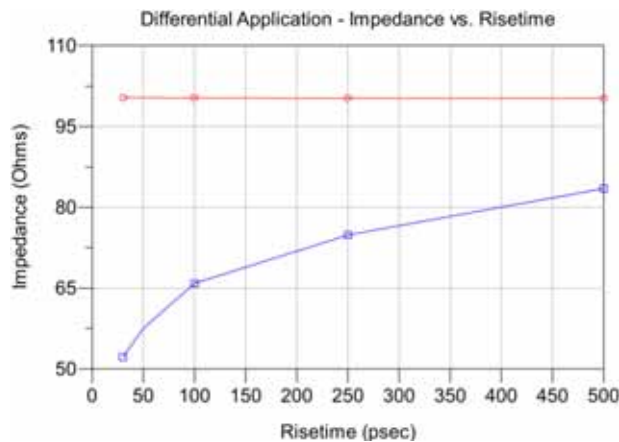


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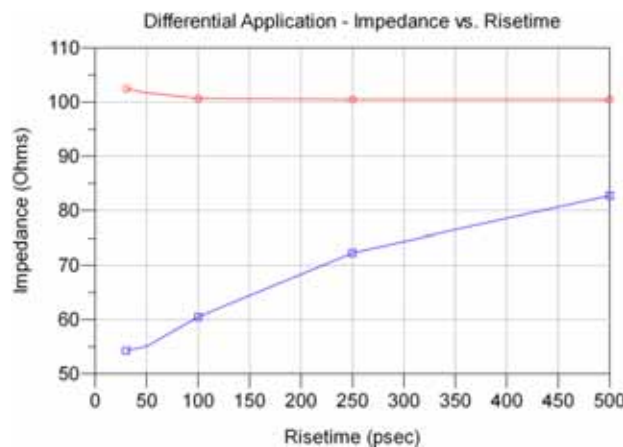
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<b>Table 4 - Differential Impedance (<math>\Omega</math>)</b>						
Case 1 = Short Row; Case 2 = Long Row						
Case	Signal Rise-time	30ps	50ps	100ps	250ps	500ps
1	Maximum Impedance	100.4	100.3	100.3	100.3	100.2
	Minimum Impedance	52.2	57.5	65.9	74.9	83.5
2	Maximum Impedance	102.5	101.7	100.7	100.5	100.5
	Minimum Impedance	54.3	55.0	60.5	72.3	82.7

### Differential Impedance - Case 1, Short Row



### Differential Impedance - Case 2, Long Row



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<b>Table 5 - Single-Ended Crosstalk (%)</b>							
Case 1 = Short Row; Case 2 = Long Row							
Case	Input(tr)		30ps	50ps	100ps	250ps	500ps
1	NEXT	GAQG	21.07	20.46	18.95	12.20	6.87
		GAGQG	2.39	2.15	1.85	1.10	0.62
		Xrow	0.29	0.23	0.17	<0.1	<0.1
	FEXT	GAQG	5.54	3.08	1.68	0.94	0.61
		GAGQG	2.07	1.33	0.61	0.21	0.15
		Xrow	0.27	0.25	0.18	<0.1	<0.1
2	NEXT	GAQG	21.24	21.04	20.23	14.84	8.80
		GAGQG	2.50	2.23	1.89	1.21	0.73
	FEXT	GAQG	2.07	1.33	0.61	0.21	0.15
		GAGQG	2.04	1.53	0.82	0.34	0.15

<b>Table 6 - Differential Crosstalk (%)</b>							
Case 1 = Short Row; Case 2 = Long Row							
Case	Input(tr)		30ps	50ps	100ps	250ps	500ps
1	NEXT	GAAQQG	6.17	6.01	5.63	3.79	2.18
		GAAGQQG	0.38	0.37	0.32	0.20	0.11
		Xrow	<0.1	<0.1	<0.1	<0.1	<0.1
	FEXT	GAAQQG	2.09	1.53	1.17	0.75	0.40
		GAAGQQG	0.28	0.14	<0.1	<0.1	<0.1
		Xrow	<0.1	<0.1	<0.1	<0.1	<0.1
2	NEXT	GAAQQG	6.97	6.68	6.23	4.67	2.90
		GAAGQQG	0.41	0.39	0.34	0.23	0.14
	FEXT	GAAQQG	2.71	2.22	1.64	1.21	0.71
		GAAGQQG	0.38	0.24	0.13	<0.1	<0.1

<b>Table 7 - Propagation Delay (Mated Connector)</b>		
Case 1 = Short Row; Case 2 = Long Row		
Case 1	Single-Ended	88 ps
	Differential	84 ps
Case 2	Single-Ended	115 ps
	Differential	107 ps