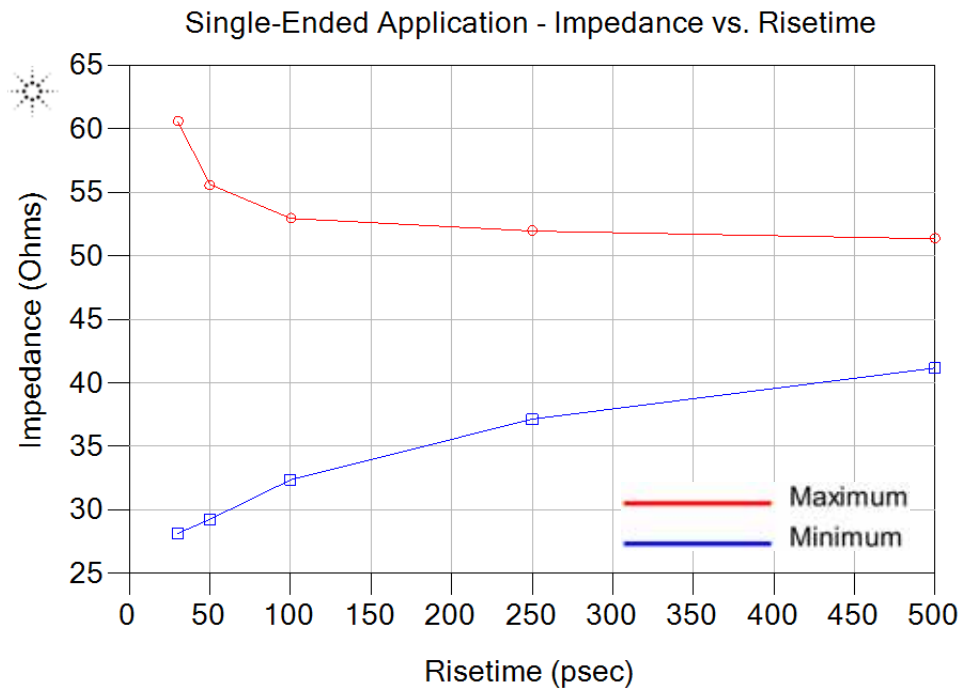


**Series:** QTH-RA/QSH-RA

**Description:** Q Strip® High Speed Ground Plane Terminal/Socket Strip, Coplanar Board-to- Board, 0.5mm (.0197") Pitch

## Time Domain Data Summary

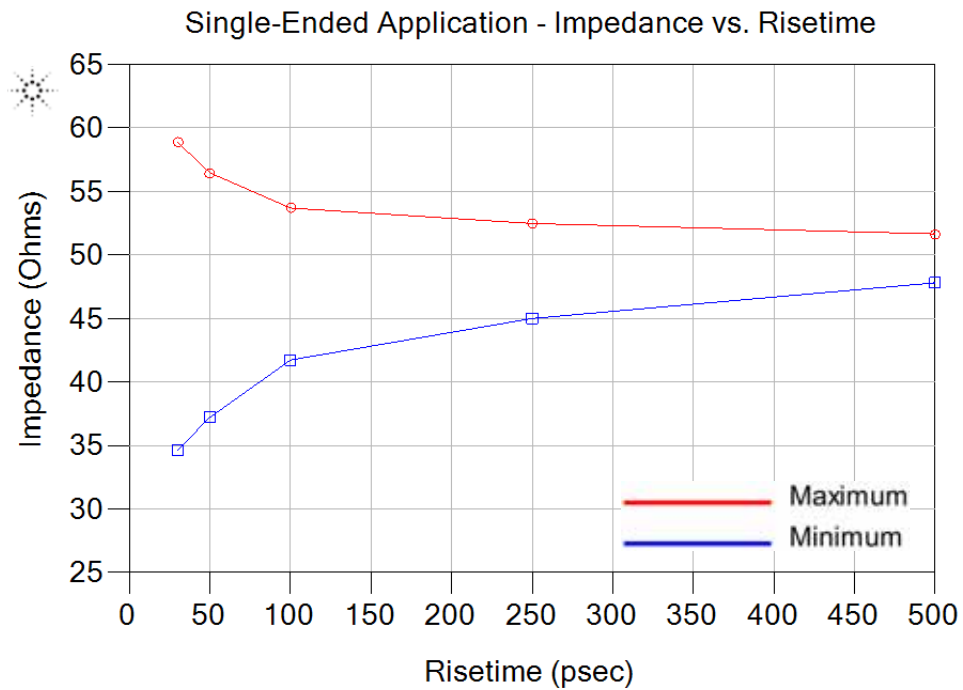
Table 3 – Long Row Single-End Impedance (Ω)					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	60.6	55.6	52.9	51.9	51.3
Minimum Impedance	28.1	29.2	32.3	37.1	41.2



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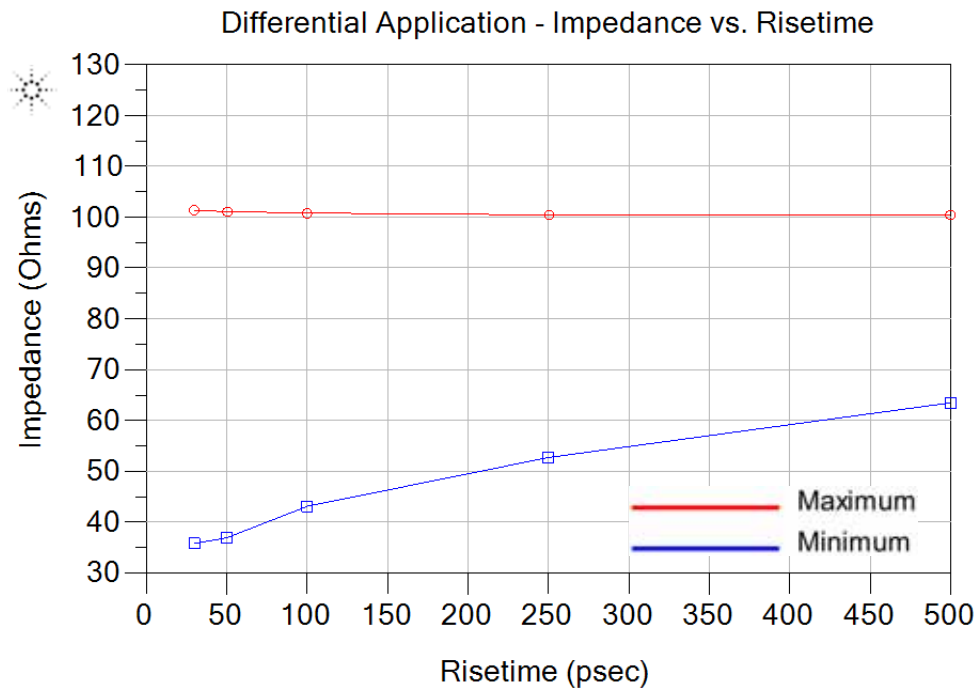
Table 4 – Short Row Single-End Impedance ( $\Omega$ )					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	58.9	56.5	53.7	52.5	51.7
Minimum Impedance	34.7	37.2	41.7	45	47.8



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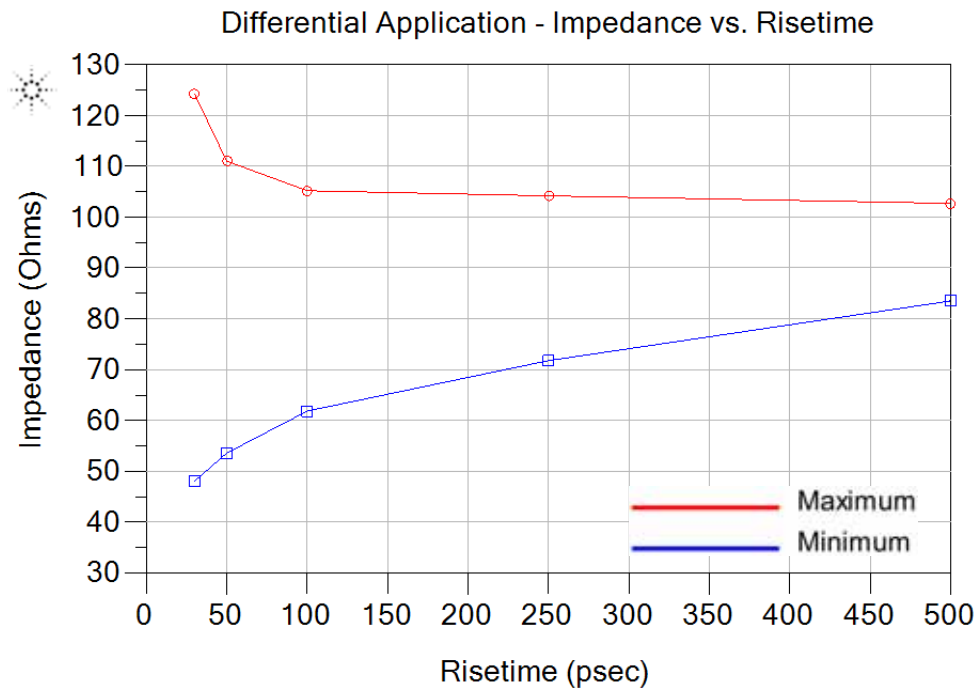
Table 5 – Long Row Differential Impedance ( $\Omega$ )					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	101.3	101	100.8	100.4	100.4
Minimum Impedance	35.7	36.9	43.1	52.6	63.4



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Table 6 – Short Row Differential Impedance ( $\Omega$ )					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	124.2	111	105.2	104.1	102.7
Minimum Impedance	48	53.5	61.8	71.7	83.5



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Table 7 - Single-Ended Crosstalk (%)							
Input(tr)	Configuration	Case	30ps	50 ps	100 ps	250 ps	500 ps
NEXT	GAQG	Long Row	28.2	25.2	21.8	19.5	14.3
		Short Row	24.4	21.4	18.3	14.8	9.2
	GAGQG	Long Row	9.3	8.3	5.7	2.7	1.9
		Short Row	8	6.3	3.8	1.9	1.4
	Xrow	-	0.2	0.1	<0.1	<0.1	<0.1
FEXT	GAQG	Long Row	11.3	8	5	4.3	2.7
		Short Row	10.7	8.1	4.1	1.2	0.4
	GAGQG	Long Row	12.3	10.2	6.5	2.9	1.3
		Short Row	13.2	10.6	6.6	2.7	1.3
	Xrow	-	0.1	0.1	<0.1	<0.1	<0.1

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Table 8 - Differential Crosstalk (%)							
Input(tr)	Configuration	Case	30ps	50 ps	100 ps	250 ps	500 ps
NEXT	GAQG	Long Row	6.8	6.5	6.1	5.7	4.4
		Short Row	7.3	6.5	5.5	4.5	2.9
	GAGQG	Long Row	2	1.3	0.8	0.3	0.2
		Short Row	2	1.6	0.9	0.5	0.3
	Xrow	-	<0.1	<0.1	<0.1	<0.1	<0.1
	FEXT	GAQG	Long Row	4.9	4.6	3.9	2.9
Short Row			2.4	2.1	1.9	1.3	0.7
GAGQG		Long Row	1.8	1.2	0.7	0.3	0.1
		Short Row	1.7	1.4	0.9	0.3	0.1
Xrow		-	<0.1	<0.1	<0.1	<0.1	<0.1

Table 9 - Propagation Delay (Mated Connector)		
Configuration	Case	Delay (ps)
Single-Ended	Long Row	204
	Short Row	130
Differential	Long Row	193
	Short Row	132