

Series: SEAM/SEAF

Description: Open Pin Field Array, 1.27mm x 1.27mm Pitch, 10mm Stack Height

Time Domain Data Summary

Table 6 – Single-End Impedance (Ω) – 1:1 S/G Pattern					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	72.3	68.4	62.5	55.4	52.9
Minimum Impedance	47.9	49.6	49.8	49.9	49.9

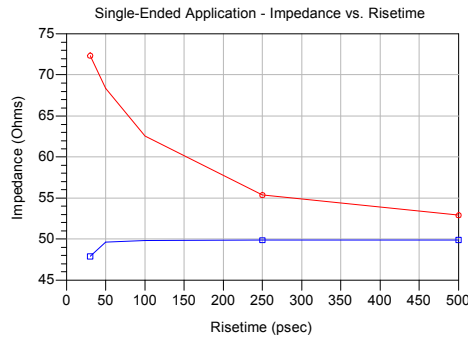
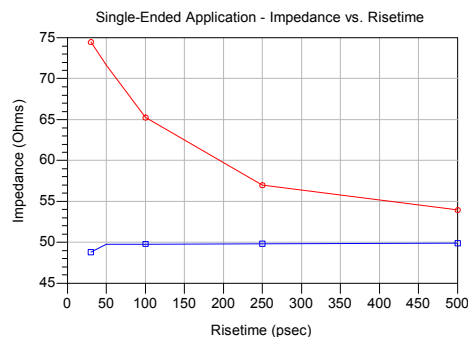


Table 7 – Single-End Impedance (Ω) – 2:1 S/G Pattern					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	74.5	71.6	65.3	57.0	54
Minimum Impedance	48.8	49.8	49.8	49.8	49.9



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Table 8 – Differential Impedance (Ω) – Optimal Horizontal					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	118.5	114.2	109.8	104.8	104.1
Minimum Impedance	97.1	98.5	99.9	100.0	100.0

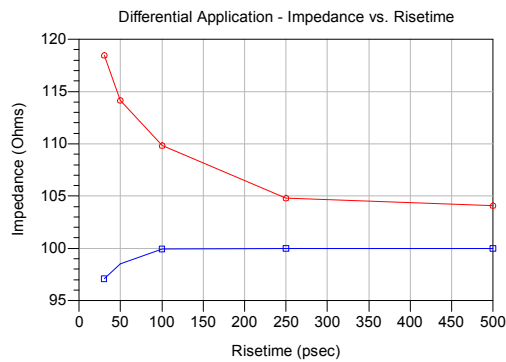
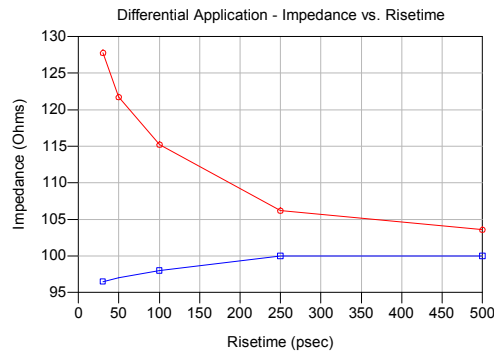


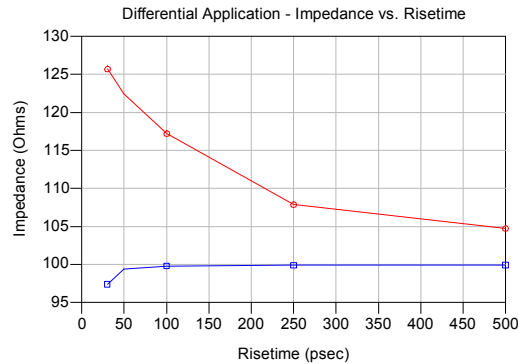
Table 9 – Differential Impedance (Ω) – Optimal Vertical					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	127.8	121.7	115.3	106.2	103.6
Minimum Impedance	96.5	97.0	98.0	100.0	100.0



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Table 10 – Differential Impedance (Ω) – High Density Vertical					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	125.7	122.4	117.2	107.9	104.7
Minimum Impedance	97.4	99.4	99.8	99.9	99.9

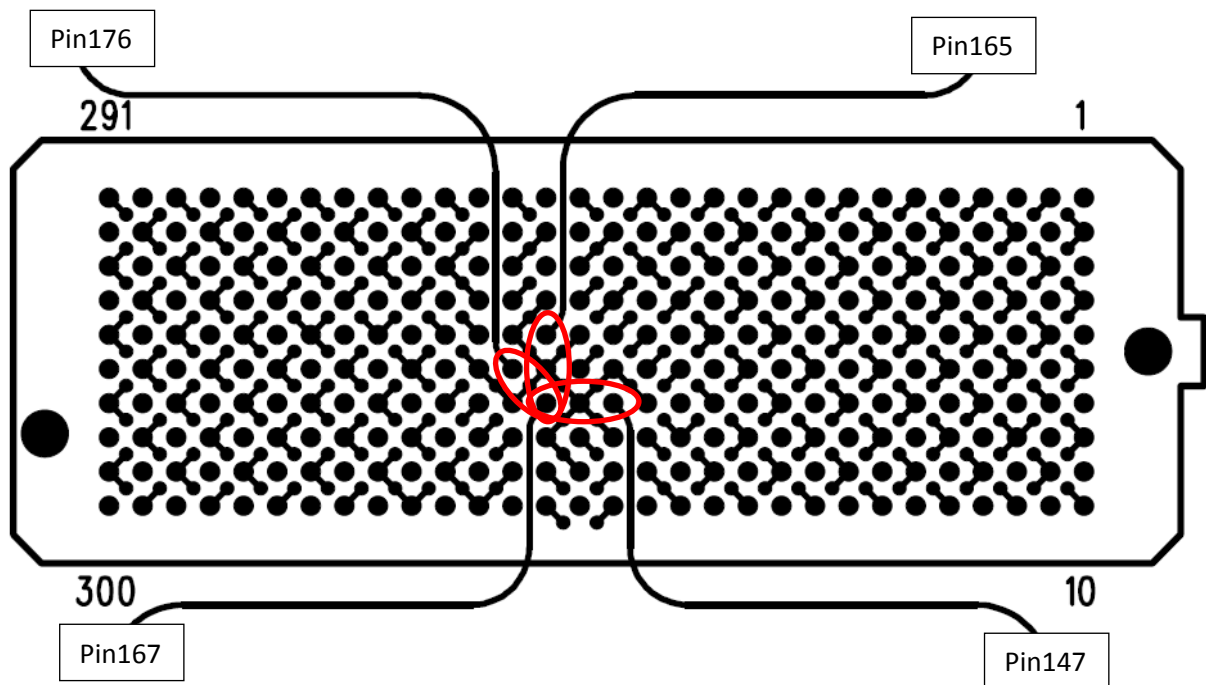


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Table 11 - Single-Ended Crosstalk (%) – 1:1 S/G Pattern							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_167	SEAM_147	0.74	0.49	0.40	0.24	0.13
	SEAM_167	SEAM_165	0.32	0.29	0.23	0.13	<0.1
	SEAM_167	SEAM_176	2.97	2.42	1.89	0.96	0.51
FEXT	SEAM_167	SEAF_147	0.80	0.49	0.30	0.16	<0.1
	SEAM_167	SEAF_165	0.37	0.25	0.18	<0.1	<0.1
	SEAM_167	SEAF_176	1.47	1.05	0.75	0.34	0.19

Single-Ended 1:1 S/G Pattern Crosstalk Pin Map

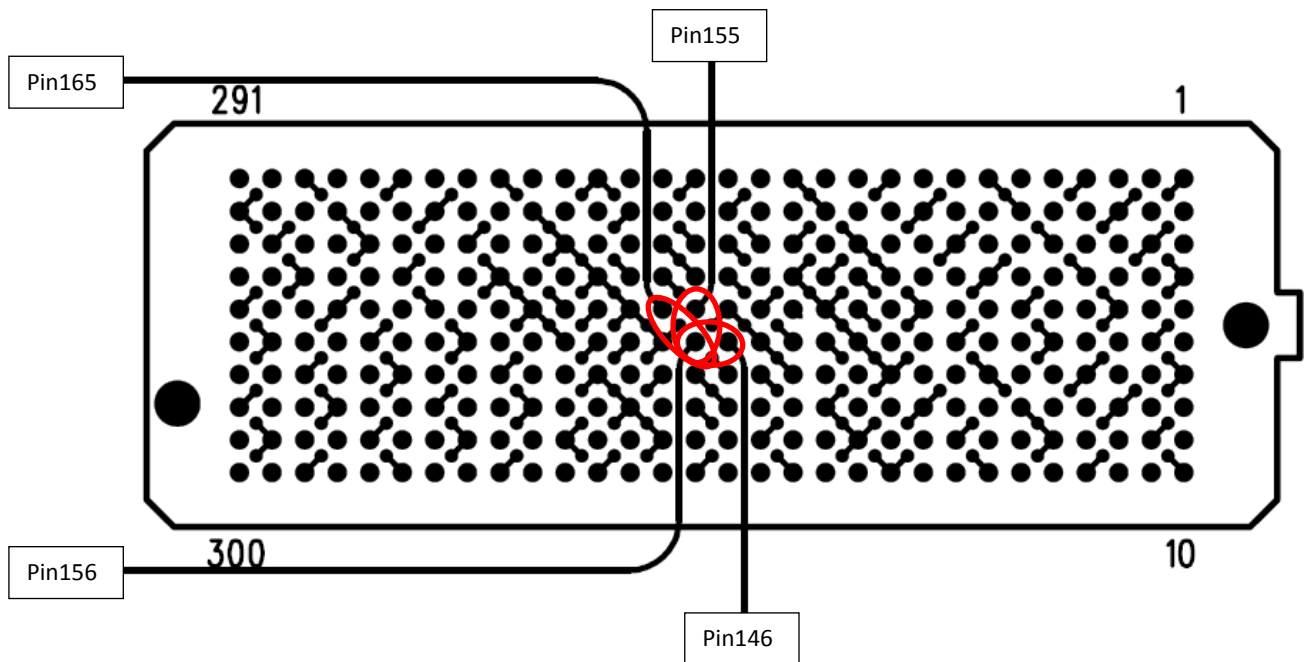


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Table 12 - Single-Ended Crosstalk (%) – 2:1 S/G Pattern							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_156	SEAM_146	11.70	10.28	8.56	4.55	2.48
	SEAM_156	SEAM_155	8.02	7.07	5.87	3.19	1.76
	SEAM_156	SEAM_165	3.44	3.21	2.72	1.59	0.91
FEXT	SEAM_156	SEAF_146	6.35	4.93	3.86	2.00	1.15
	SEAM_156	SEAF_155	5.44	4.14	3.18	1.68	0.95
	SEAM_156	SEAF_165	2.62	2.29	1.87	1.04	0.60

Single-Ended 2:1 S/G Pattern Crosstalk Pin Map

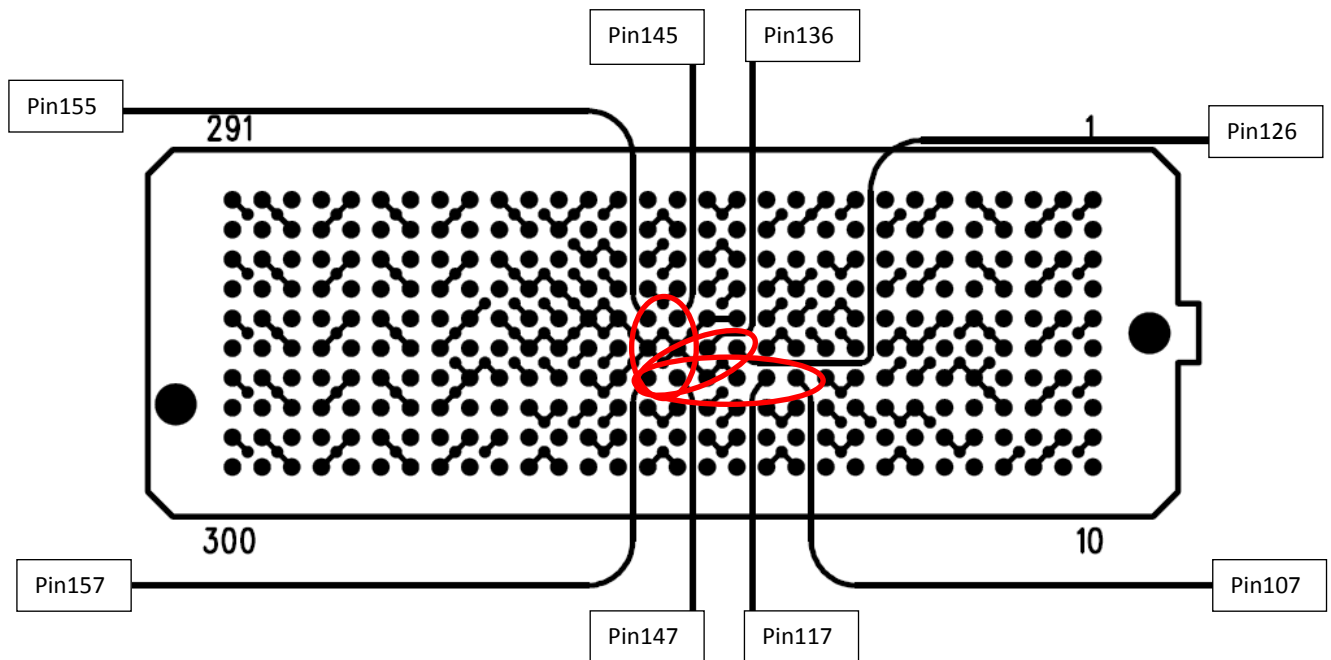


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Table 13 - Differential Crosstalk (%) – Optimal Horizontal							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_147,157	SEAM_107,117	0.14	<0.1	<0.1	<0.1	<0.1
	SEAM_147,157	SEAM_126,136	0.96	0.86	0.69	0.34	0.18
	SEAM_147,157	SEAM_145,155	0.15	0.10	<0.1	<0.1	<0.1
FEXT	SEAM_147,157	SEAF_107,117	0.77	0.50	0.25	0.10	<0.1
	SEAM_147,157	SEAF_126,136	0.28	0.20	0.13	<0.1	<0.1
	SEAM_147,157	SEAF_145,155	0.16	<0.1	<0.1	<0.1	<0.1

Differential Optimal Horizontal Crosstalk Pin Map

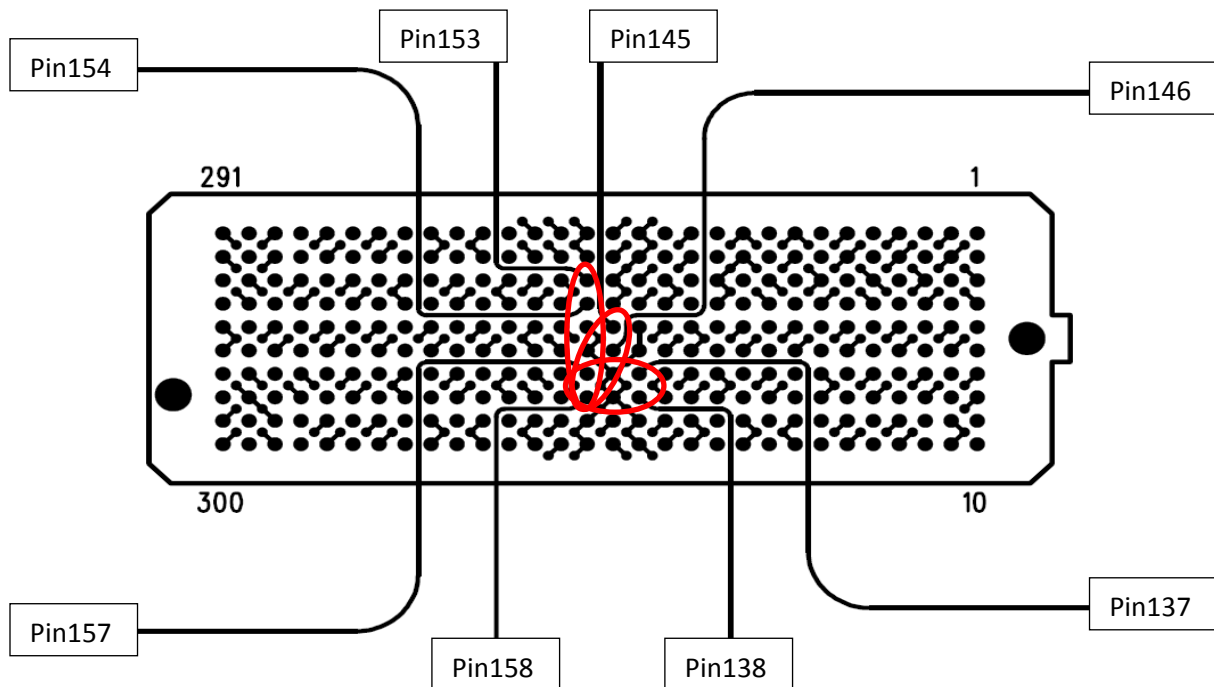


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Table 14 - Differential Crosstalk (%) – Optimal Vertical							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_157,158	SEAM_137,138	0.38	0.24	0.16	<0.1	<0.1
	SEAM_157,158	SEAM_145,146	1.10	0.99	0.77	0.37	0.20
	SEAM_157,158	SEAM_153,154	0.16	0.10	<0.1	<0.1	<0.1
FEXT	SEAM_157,158	SEAF_137,138	0.36	0.15	0.10	<0.1	<0.1
	SEAM_157,158	SEAF_145,146	0.44	0.27	0.18	<0.1	<0.1
	SEAM_157,158	SEAF_153,154	0.26	0.19	0.10	<0.1	<0.1

Differential Optimal Vertical Crosstalk Pin Map

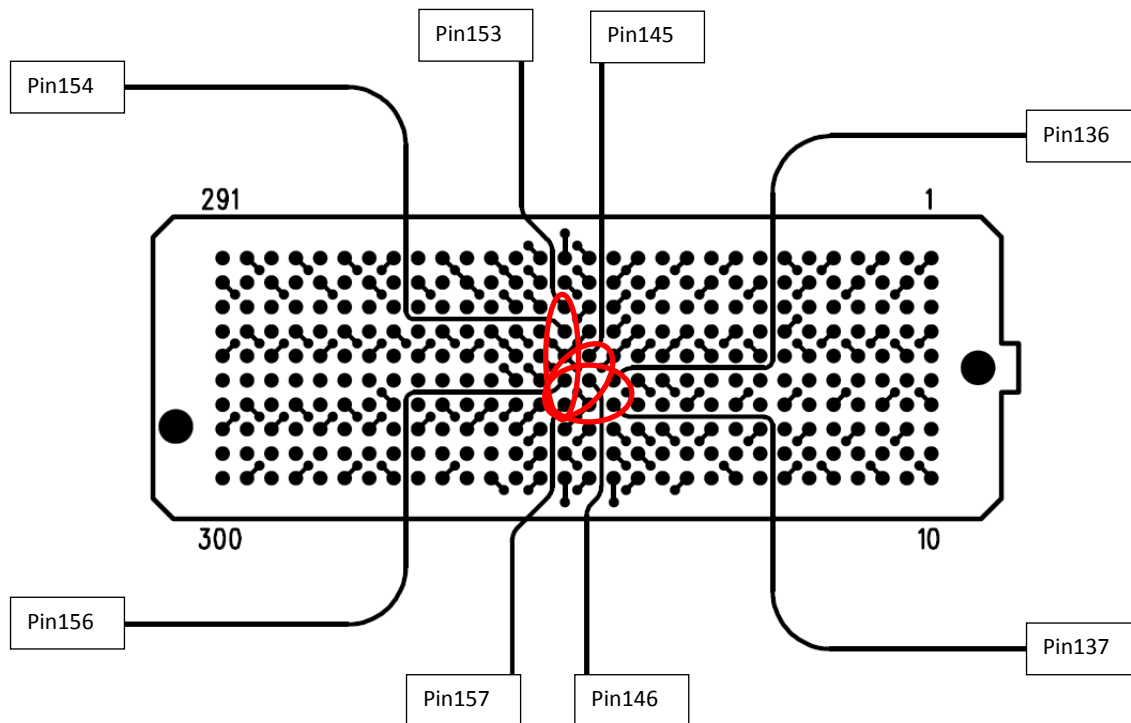


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Table 15 - Differential Crosstalk (%) – High Density Vertical							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_156,157	SEAM_136,137	0.69	0.54	0.43	0.26	0.14
	SEAM_156,157	SEAM_145,146	0.96	0.86	0.69	0.34	0.18
	SEAM_156,157	SEAM_153,154	0.15	0.10	<0.1	<0.1	<0.1
FEXT	SEAM_156,157	SEAF_136,137	0.78	0.54	0.41	0.23	0.12
	SEAM_156,157	SEAF_145,146	1.00	0.74	0.48	0.22	0.11
	SEAM_156,157	SEAF_153,154	0.20	0.16	0.11	<0.1	<0.1

Differential High Density Vertical Crosstalk Pin Map



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Table 16 - Propagation Delay (Mated Connector)	
Single-Ended: 1:1 S/G	54 ps
Single-Ended: 2:1 S/G	54 ps
Differential: Optimal Horizontal	53 ps
Differential: Optimal Vertical	51 ps
Differential: High Density Vertical	53 ps