

Series: SEAFP/SEAMP Array Series

Description: Open Pin Field Array, Press Fit, 1.27mm x 1.27mm Pitch, 7 mm 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	57.45	55.48	51.82	51.46	51.08
Minimum Impedance	45.28	46.65	48.87	49.57	49.75

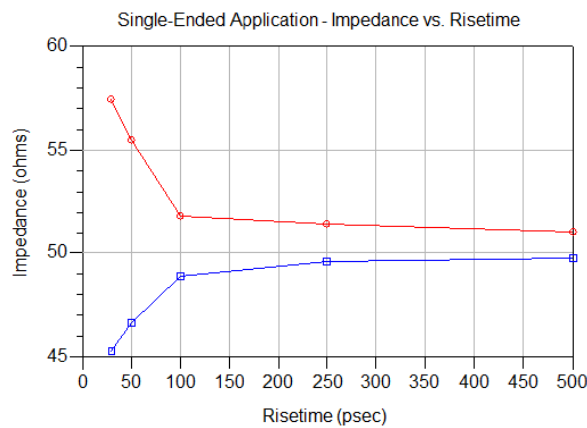
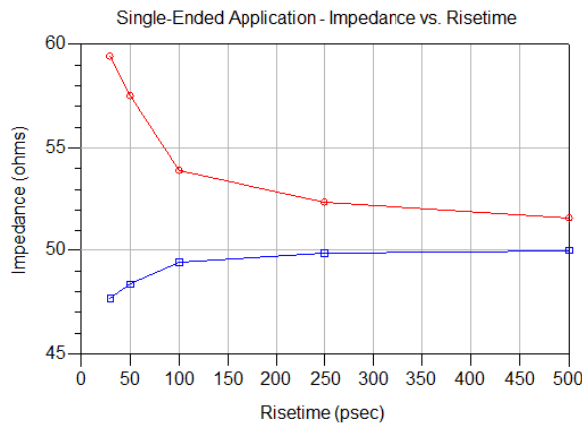


Table 7 – Single-End Impedance (Ω) – 2:1 S/G Pattern					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	59.43	57.52	53.92	52.36	51.63
Minimum Impedance	47.65	48.36	49.42	49.85	49.99



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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	102.70	101.98	101.67	101.20	99.86
Minimum Impedance	81.42	84.56	88.93	93.46	96.81

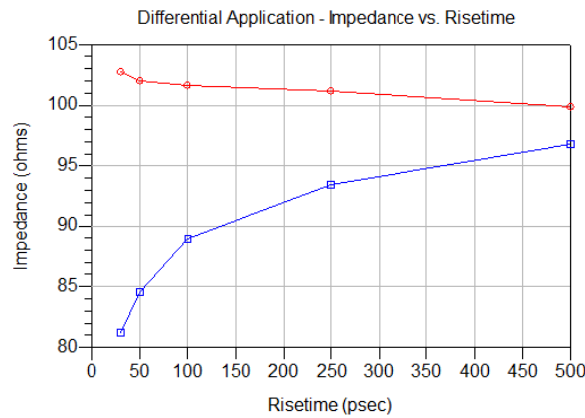
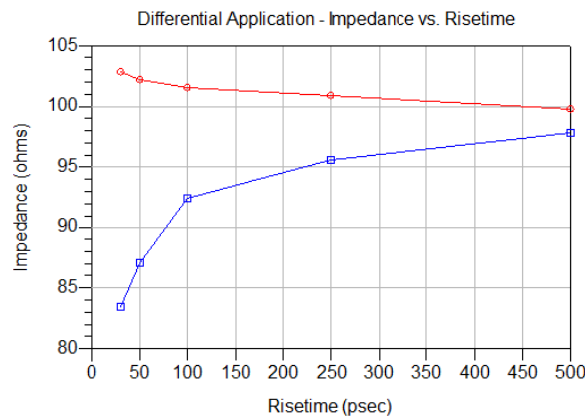


Table 9 – Differential Impedance (Ω) – Optimal Vertical					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	102.80	102.17	101.54	100.93	99.81
Minimum Impedance	83.46	87.04	92.43	95.60	97.83

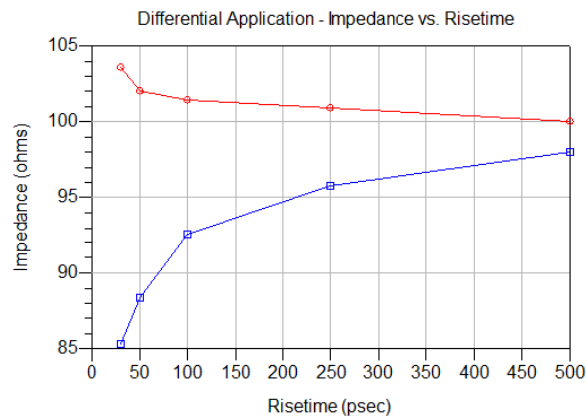


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Table 10 – Differential Impedance (Ω) – High Density Vertical

Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	103.58	102.03	101.44	100.87	99.97
Minimum Impedance	85.30	88.33	92.50	95.75	97.78

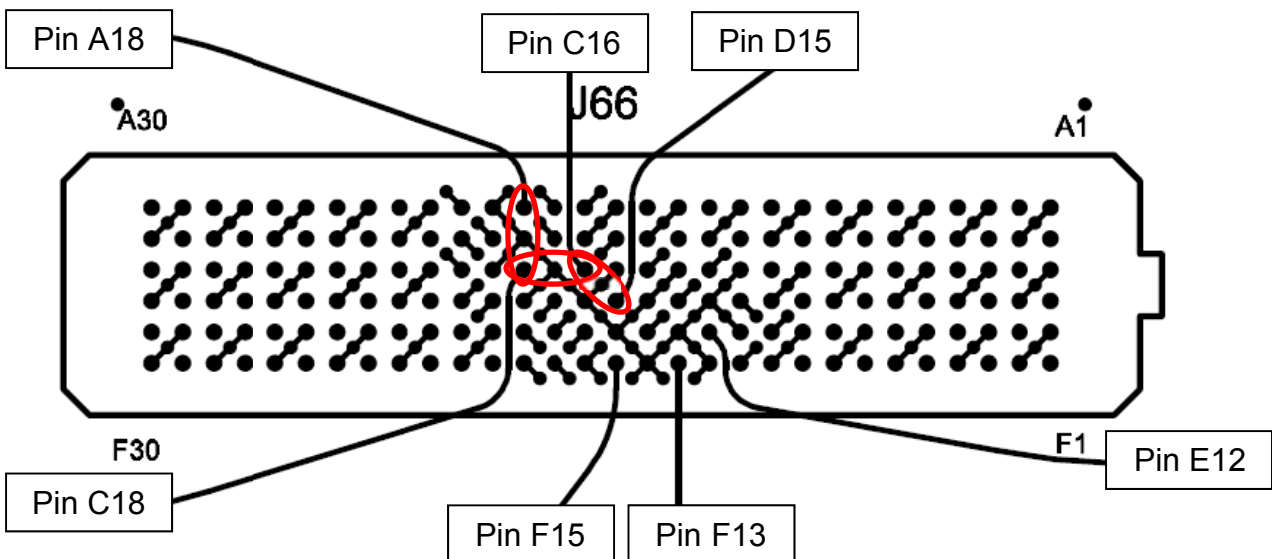


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Table 11 - Single-Ended Crosstalk (%) – 1:1 S/G Pattern							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_A18	SEAM_C18	0.33	0.31	0.24	0.13	<0.1
	SEAM_C16	SEAM_C18	0.63	0.52	0.38	0.19	0.10
	SEAM_C16	SEAM_D15	2.62	2.33	1.78	0.92	0.51
FEXT	SEAM_A18	SEAFP_C18	0.31	0.27	0.22	0.11	<0.1
	SEAM_C16	SEAFP_C18	0.28	0.24	0.17	<0.1	<0.1
	SEAM_C16	SEAFP_D15	1.39	1.05	0.67	0.29	0.14

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

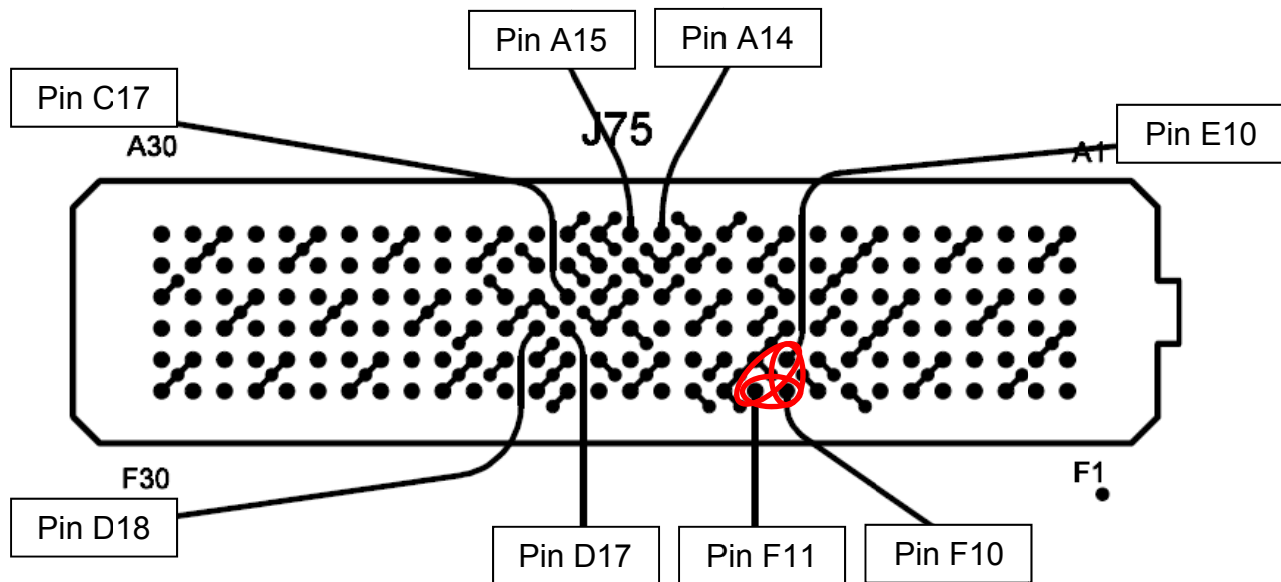


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Table 12 - Single-Ended Crosstalk (%) – 2:1 S/G Pattern							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_E10	SEAM_F10	9.21	8.54	7.37	4.23	2.34
	SEAM_E10	SEAM_F11	4.10	3.75	3.06	1.64	0.94
	SEAM_F10	SEAM_F11	17.82	15.76	13.18	7.70	4.25
FEXT	SEAM_E10	SEAFP_F10	3.61	2.85	1.57	0.70	0.38
	SEAM_E10	SEAFP_F11	2.56	2.11	1.59	0.92	0.50
	SEAM_F10	SEAFP_F11	7.66	6.09	4.05	2.25	1.19

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



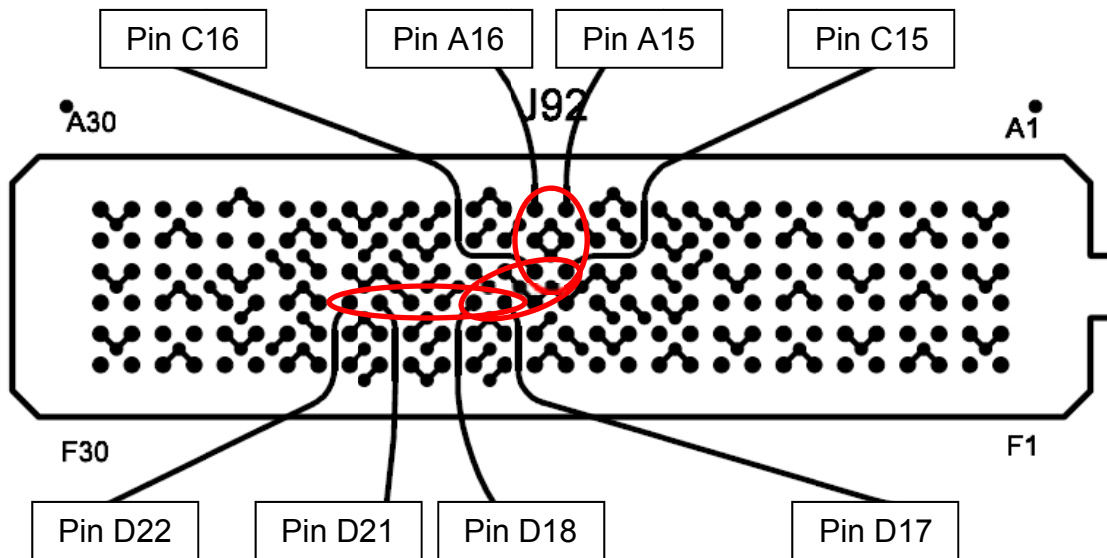
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Table 13 - Differential Crosstalk (%) – Optimal Horizontal

Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_A15,A16	SEAM_C15,C16	0.14	<0.1	<0.1	<0.1	<0.1
	SEAM_C15,C16	SEAM_D17,D18	0.83	0.80	0.65	0.33	0.18
	SEAM_D17,D18	SEAM_D21,D22	0.11	<0.1	<0.1	<0.1	<0.1
FEXT	SEAM_A15,A16	SEAFP_C15,C16	0.20	0.17	0.13	<0.1	<0.1
	SEAM_C15,C16	SEAFP_D17,D18	0.24	0.18	0.11	<0.1	<0.1
	SEAM_D17,D18	SEAFP_D21,D22	0.22	0.16	<0.1	<0.1	<0.1

Differential Optimal Horizontal Crosstalk Pin Map

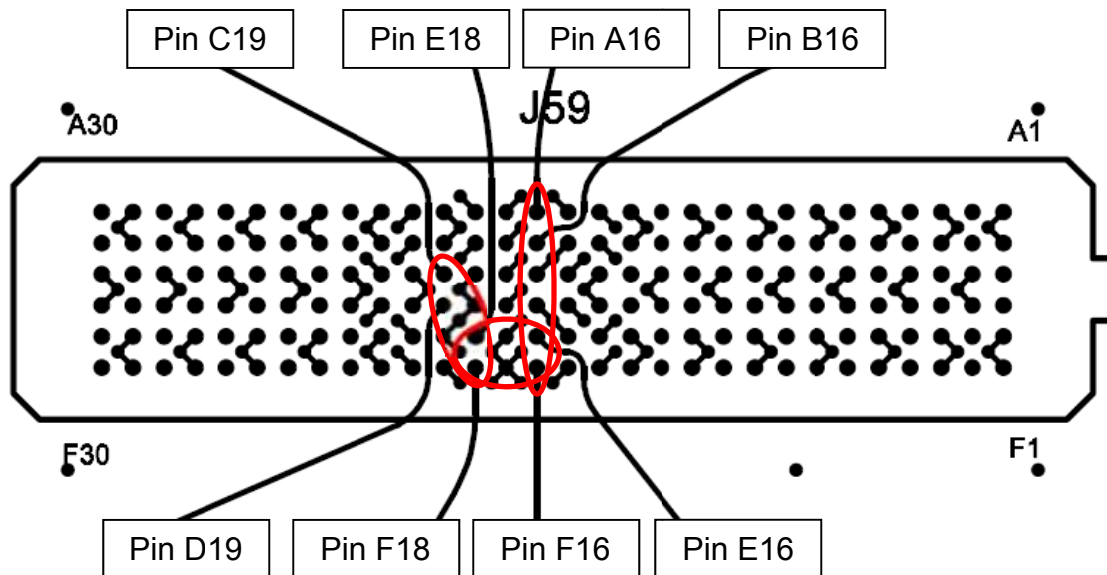


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Table 14 - Differential Crosstalk (%) – Optimal Vertical							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_A16,B16	SEAM_E16,F16	<0.1	<0.1	<0.1	<0.1	<0.1
	SEAM_C19,D19	SEAM_E18,F18	1.36	1.24	0.93	0.44	0.22
	SEAM_E16,F16	SEAM_E18,F18	0.84	0.68	0.44	0.23	0.13
FEXT	SEAM_A16,B16	SEAFP_E16,F16	0.13	<0.1	<0.1	<0.1	<0.1
	SEAM_C19,D19	SEAFP_E18,F18	0.87	0.66	0.39	0.20	<0.1
	SEAM_E16,F16	SEAFP_E18,F18	0.99	0.79	0.46	0.19	<0.1

Differential Optimal Vertical Crosstalk Pin Map

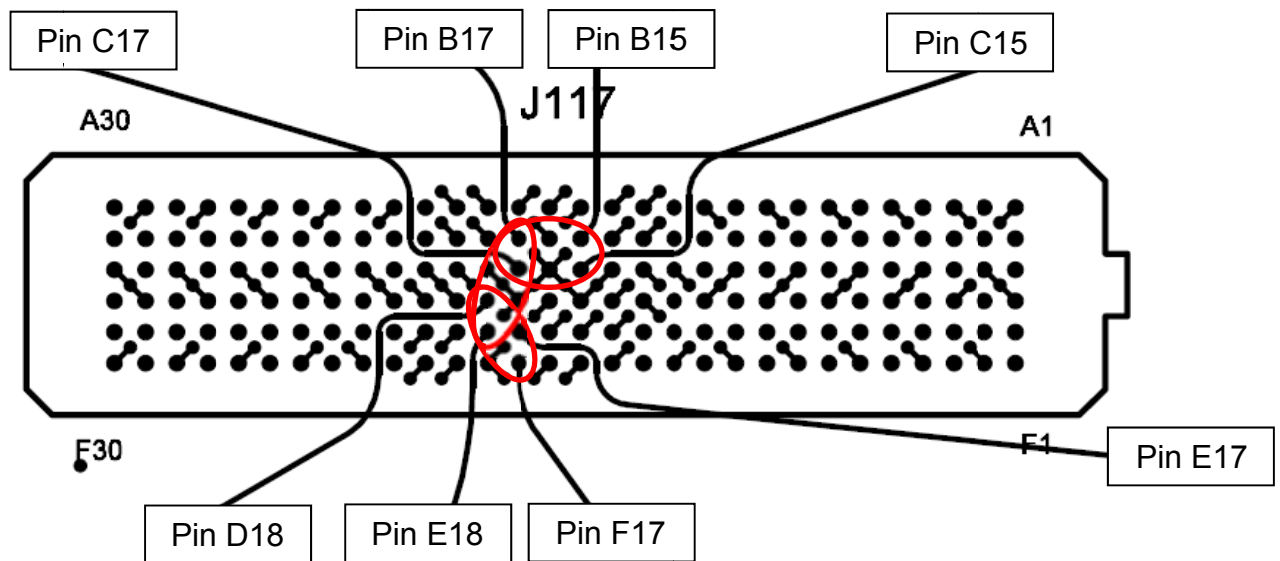


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Table 15 - Differential Crosstalk (%) – High Density Vertical							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_B15,C15	SEAM_B17,C17	0.93	0.72	0.56	0.36	0.21
	SEAM_B17,C17	SEAM_D18,E18	1.06	0.92	0.71	0.38	0.19
	SEAM_D18,E18	SEAM_E17,F17	3.42	3.13	2.51	1.38	0.74
FEXT	SEAM_B15,C15	SEAM_B17,C17	1.68	1.02	0.57	0.30	0.17
	SEAM_B17,C17	SEAM_D18,E18	0.93	0.45	0.16	<0.1	<0.1
	SEAM_D18,E18	SEAFP_E17,F17	2.10	1.73	1.02	0.46	0.22

Differential High Density Vertical Crosstalk Pin Map



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Table 16 - Propagation Delay (Mated Connector)	
Single-Ended: 1:1 S/G	67 ps
Single-Ended: 2:1 S/G	73 ps
Differential: Optimal Horizontal	64 ps
Differential: Optimal Vertical	64 ps
Differential: High Density Vertical	67 ps