

**Series:** SEAFP/SEAM Array Series

**Description:** 1.27mm x 1.27mm grid interconnect system, 12 mm Stack Height

## Time Domain Data Summary

Table 6 – Single-End Impedance ( $\Omega$ ) – 1:1 S/G Pattern					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	57.40	56.92	54.17	52.05	51.66
Minimum Impedance	47.30	47.96	49.03	49.27	49.51

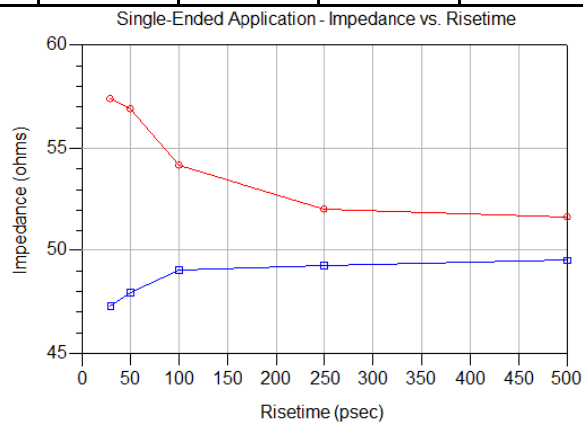
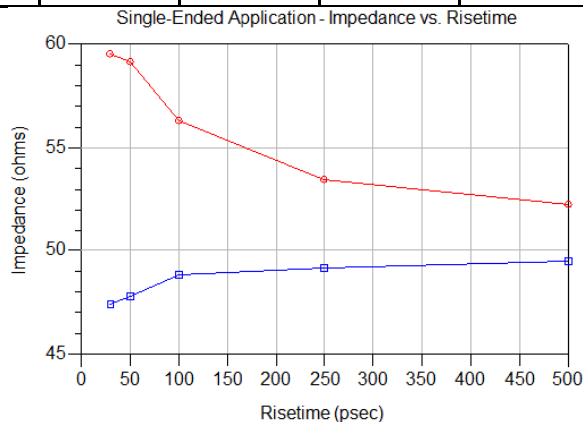


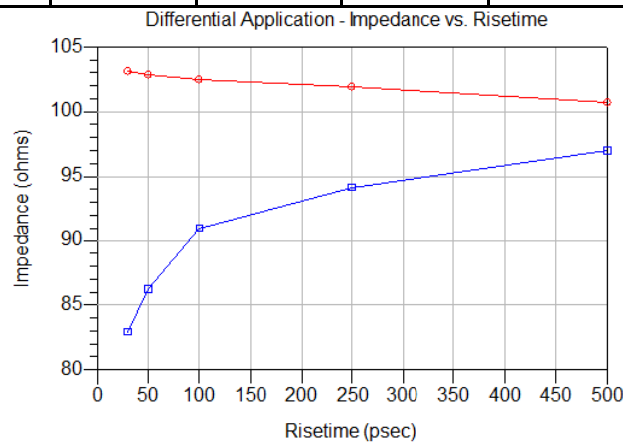
Table 7 – Single-End Impedance ( $\Omega$ ) – 2:1 S/G Pattern					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	59.52	59.14	56.29	53.45	52.26
Minimum Impedance	47.41	47.79	48.80	49.17	49.46



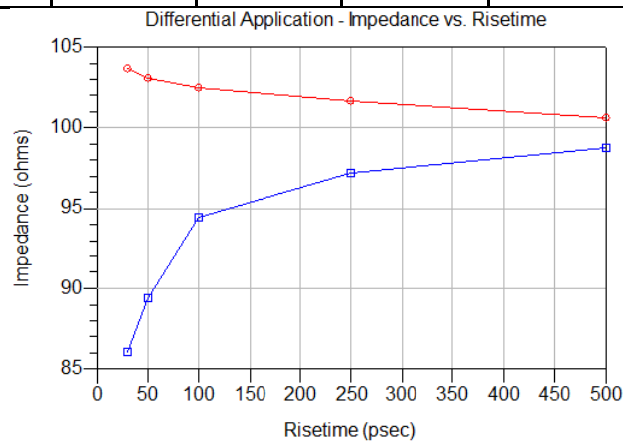
**Series:** SEAFP/SEAM Array Series

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<b>Table 8 – Differential Impedance (<math>\Omega</math>) – Optimal Horizontal</b>					
<b>Signal Risetime</b>	<b>30 ps</b>	<b>50 ps</b>	<b>100 ps</b>	<b>250 ps</b>	<b>500 ps</b>
<b>Maximum Impedance</b>	103.12	102.83	102.43	101.92	100.70
<b>Minimum Impedance</b>	82.94	86.23	91.00	94.16	97.02



<b>Table 9 – Differential Impedance (<math>\Omega</math>) – Optimal Vertical</b>					
<b>Signal Risetime</b>	<b>30 ps</b>	<b>50 ps</b>	<b>100 ps</b>	<b>250 ps</b>	<b>500 ps</b>
<b>Maximum Impedance</b>	103.61	103.08	102.43	101.64	100.62
<b>Minimum Impedance</b>	86.06	89.40	94.45	97.21	98.74

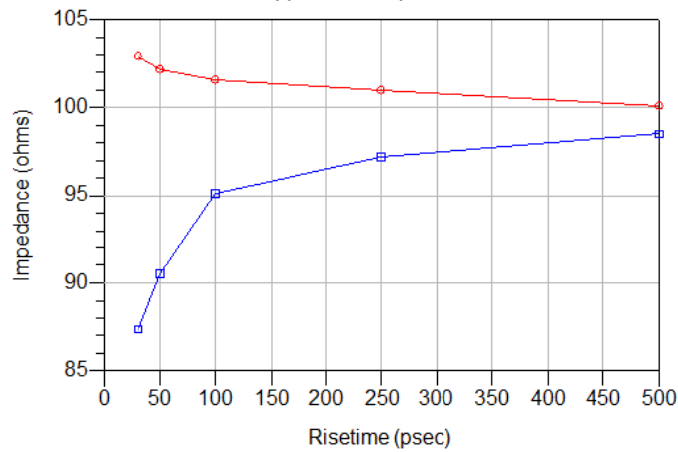


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<b>Table 10 – Differential Impedance (<math>\Omega</math>) – High Density Vertical</b>					
<b>Signal Risetime</b>	<b>30 ps</b>	<b>50 ps</b>	<b>100 ps</b>	<b>250 ps</b>	<b>500 ps</b>
<b>Maximum Impedance</b>	102.89	102.17	101.60	100.99	100.11
<b>Minimum Impedance</b>	87.35	90.48	95.13	97.19	98.49

Differential Application - Impedance vs. Risetime

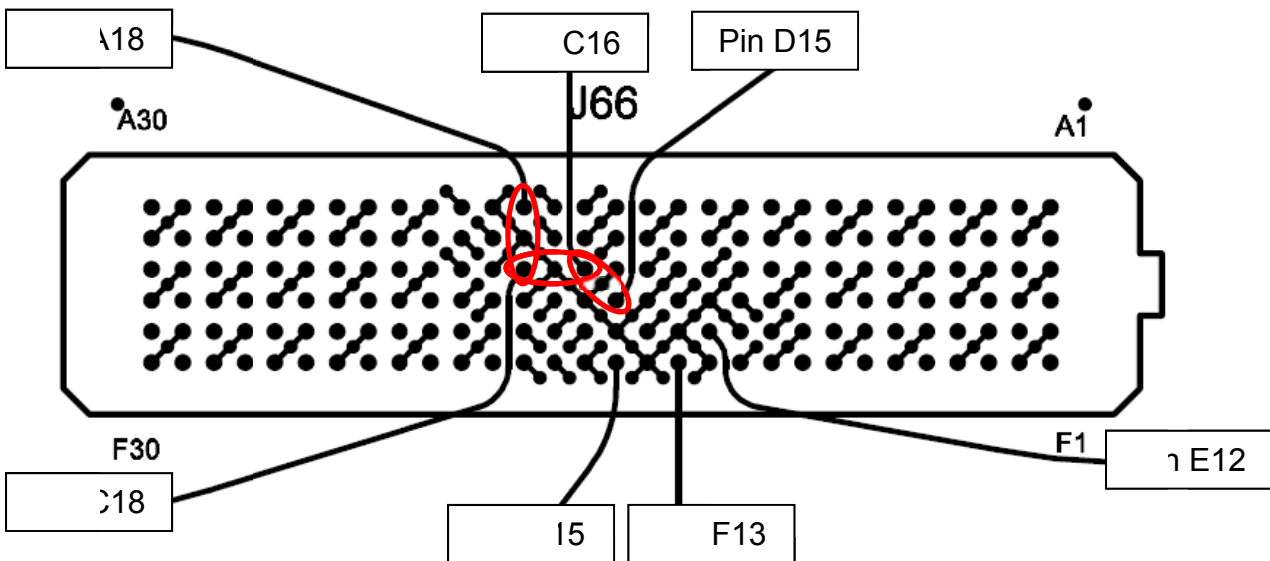


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Table 11 - Single-Ended Crosstalk (%) – 1:1 S/G Pattern							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_A18	SEAM_C18	0.32	0.25	0.22	0.13	<0.1
	SEAM_C16	SEAM_C18	0.73	0.61	0.44	0.24	0.13
	SEAM_C16	SEAM_D15	2.63	2.40	2.11	1.24	0.74
FEXT	SEAM_A18	SEAFP_C18	0.26	0.20	0.17	0.11	<0.1
	SEAM_C16	SEAFP_C18	0.31	0.28	0.21	0.11	<0.1
	SEAM_C16	SEAFP_D15	1.10	0.87	0.64	0.31	0.16

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

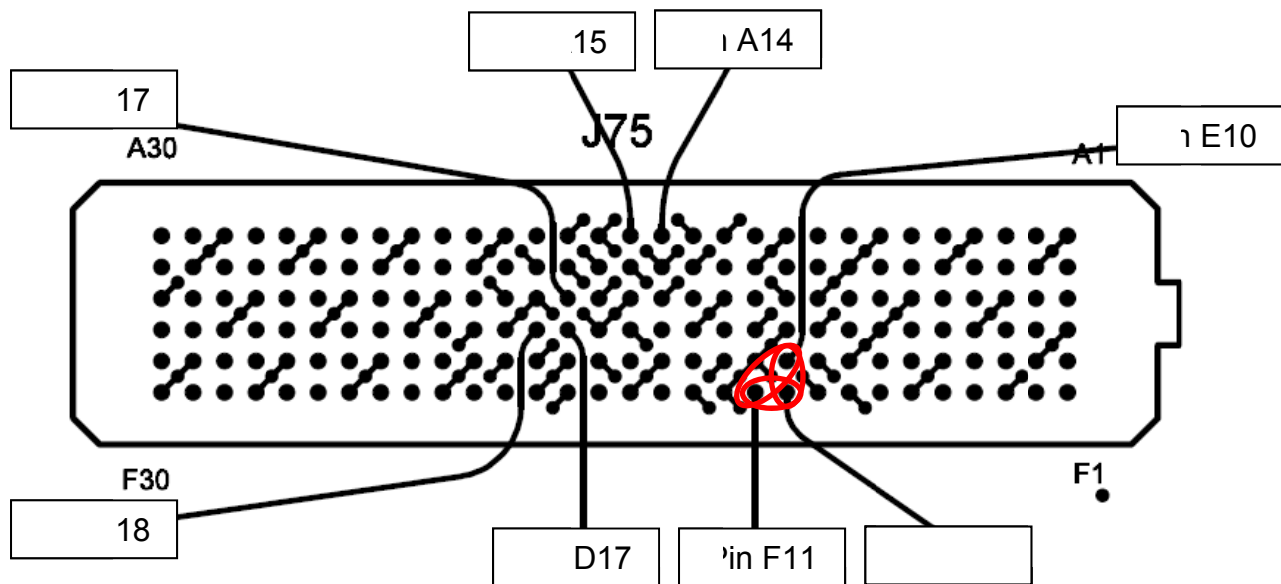


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Table 12 - Single-Ended Crosstalk (%) – 2:1 S/G Pattern							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_E10	SEAM_F10	9.13	8.50	7.99	5.03	2.74
	SEAM_E10	SEAM_F11	4.04	3.94	3.55	2.22	1.24
	SEAM_F10	SEAM_F11	17.02	16.14	14.63	9.08	4.91
FEXT	SEAM_E10	SEAFP_F10	3.52	3.23	2.62	1.50	0.83
	SEAM_E10	SEAFP_F11	2.56	2.44	2.10	1.24	0.72
	SEAM_F10	SEAFP_F11	6.29	5.12	4.08	2.49	1.36

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

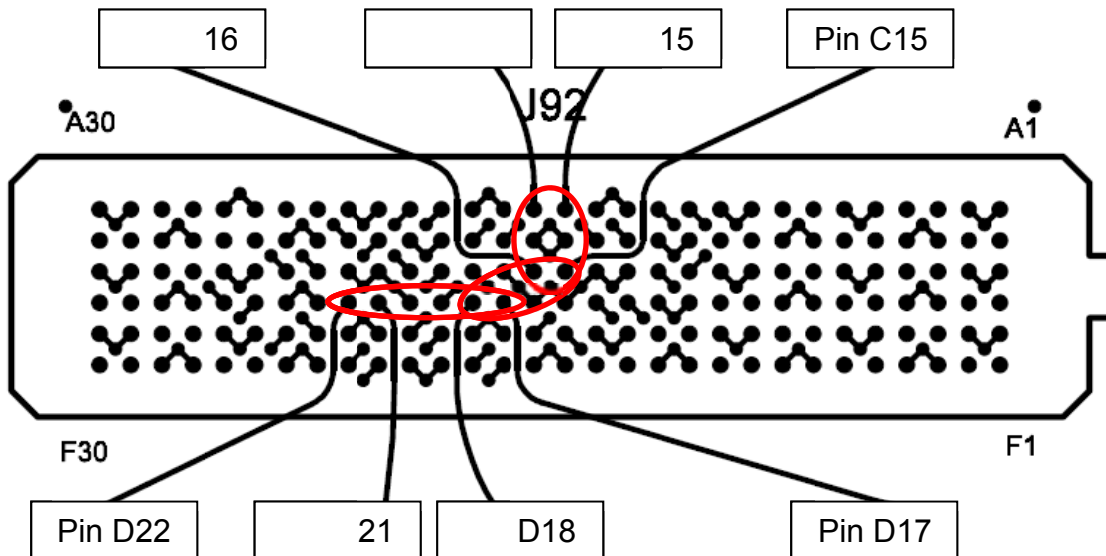


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Table 13 - Differential Crosstalk (%) – Optimal Horizontal							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_A15,A16	SEAM_C15,C16	0.16	0.11	<0.1	<0.1	<0.1
	SEAM_C15,C16	SEAM_D17,D18	0.99	0.90	0.79	0.44	0.23
	SEAM_D17,D18	SEAM_D21,D22	0.10	<0.1	<0.1	<0.1	<0.1
FEXT	SEAM_A15,A16	SEAFP_C15,C16	0.19	0.15	0.10	<0.1	<0.1
	SEAM_C15,C16	SEAFP_D17,D18	0.24	0.17	<0.1	<0.1	<0.1
	SEAM_D17,D18	SEAFP_D21,D22	0.24	0.18	0.10	<0.1	<0.1

### Differential Optimal Horizontal Crosstalk Pin Map

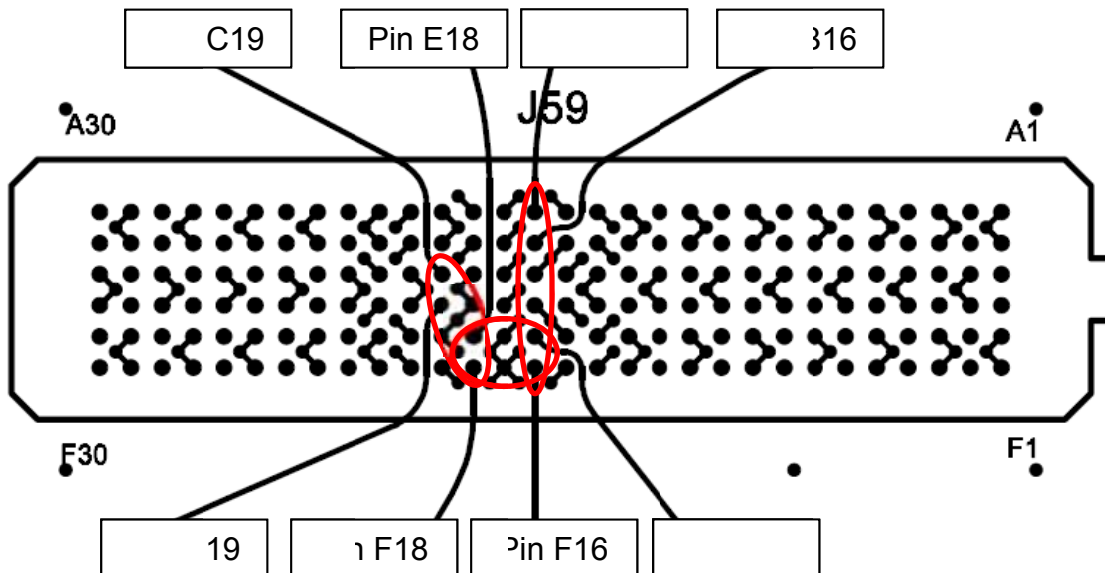


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Table 14 - Differential Crosstalk (%) – Optimal Vertical							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_A16,B16	SEAM_E16,F16	<0.1	<0.1	<0.1	<0.1	<0.1
	SEAM_C19,D19	SEAM_E18,F18	1.20	1.15	1.02	0.55	0.28
	SEAM_E16,F16	SEAM_E18,F18	0.89	0.74	0.54	0.31	0.17
FEXT	SEAM_A16,B16	SEAFP_E16,F16	<0.1	<0.1	<0.1	<0.1	<0.1
	SEAM_C19,D19	SEAFP_E18,F18	0.70	0.57	0.32	0.13	<0.1
	SEAM_E16,F16	SEAFP_E18,F18	0.92	0.69	0.37	0.14	<0.1

### Differential Optimal Vertical Crosstalk Pin Map

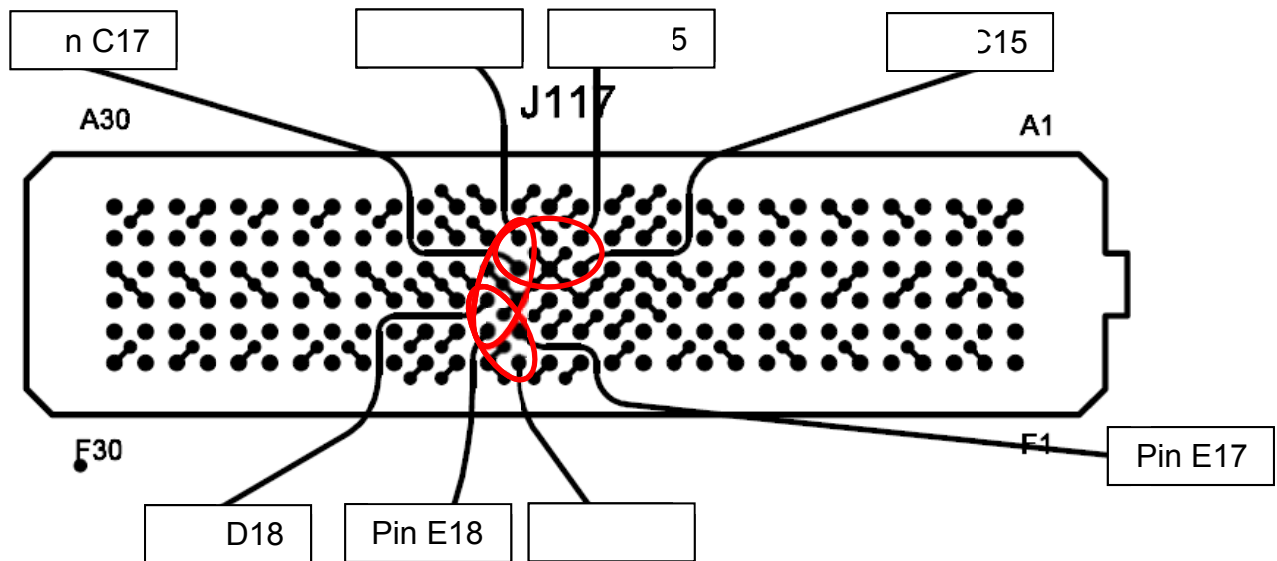


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Table 15 - Differential Crosstalk (%) – High Density Vertical							
Input(tr)	Driver	Receiver	30 ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAM_B15,C15	SEAM_B17,C17	0.73	0.68	0.64	0.40	0.23
	SEAM_B17,C17	SEAM_D18,E18	1.18	1.04	0.90	0.51	0.27
	SEAM_D18,E18	SEAM_E17,F17	4.44	3.97	3.14	1.84	1.01
FEXT	SEAM_B15,C15	SEAM_B17,C17	1.21	0.83	0.58	0.36	0.21
	SEAM_B17,C17	SEAM_D18,E18	0.31	0.21	0.11	<0.1	<0.1
	SEAM_D18,E18	SEAFP_E17,F17	1.51	0.96	0.42	0.13	0.09

### Differential High Density Vertical Crosstalk Pin Map



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<b>Table 16 - Propagation Delay (Mated Connector)</b>	
<b>Single-Ended: 1:1 S/G</b>	99 ps
<b>Single-Ended: 2:1 S/G</b>	97 ps
<b>Differential: Optimal Horizontal</b>	92 ps
<b>Differential: Optimal Vertical</b>	93 ps
<b>Differential: High Density Vertical</b>	94 ps