Series: SEAFP/SEAM
Description: 1.27mm x 1.27mm grid interconnect system, 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	58.3	56.2	52.7	52.1	51.8
Minimum Impedance	47.2	48.1	49.6	50	50

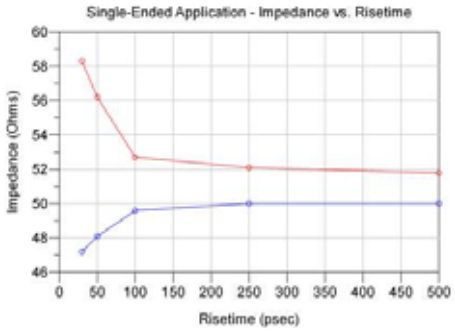
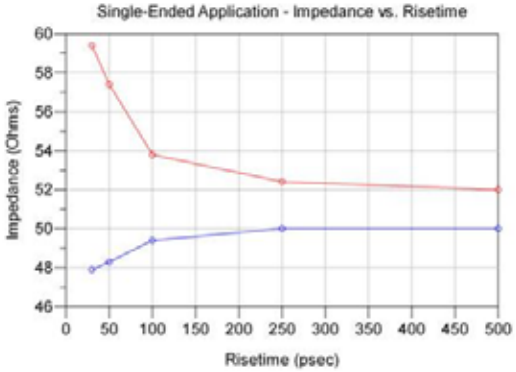


Table 7 – Single-End Impedance (Ω) – 2:1 S/G Pattern					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	59.4	57.4	53.8	52.4	52
Minimum Impedance	47.9	48.3	49.4	50	50



Series: SEAFP/SEAM
Description: 1.27mm x 1.27mm grid interconnect system, 7 mm Stack Height

Table 8 – Differential Impedance (Ω) – Optimal Horizontal					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	103.2	103.6	103.5	103.2	101.3
Minimum Impedance	83.3	86.2	91.1	95.9	98.8

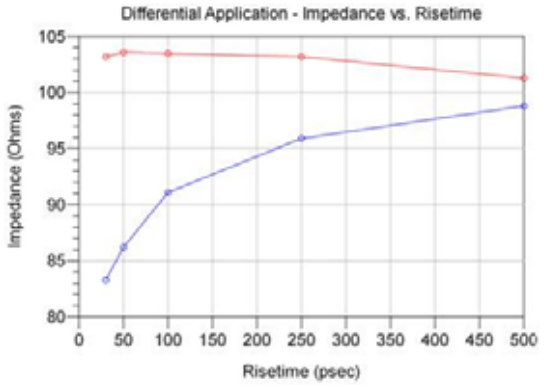
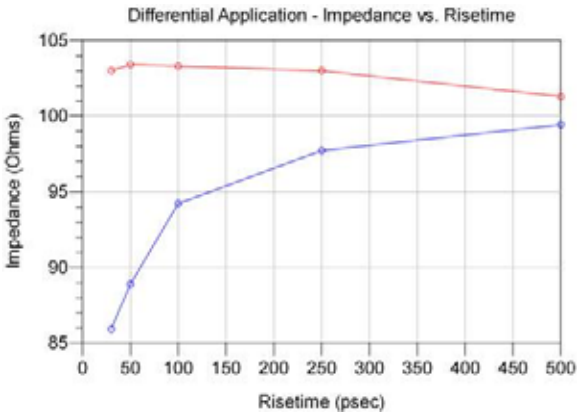
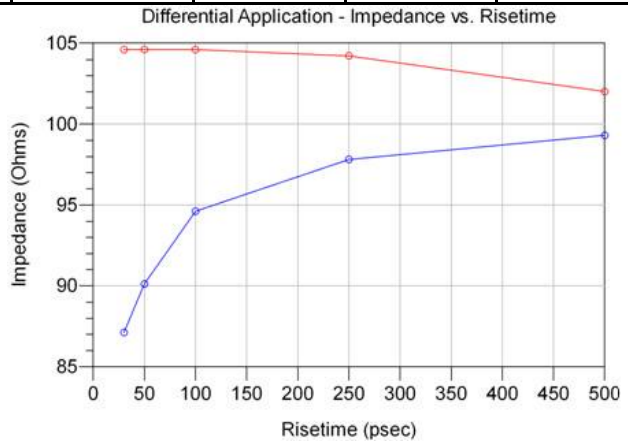


Table 9 – Differential Impedance (Ω) – Optimal Vertical					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	103	103.4	103.3	103	101.3
Minimum Impedance	85.9	88.9	94.2	97.7	99.4



Series: SEAFP/SEAM
Description: 1.27mm x 1.27mm grid interconnect system, 7 mm Stack Height

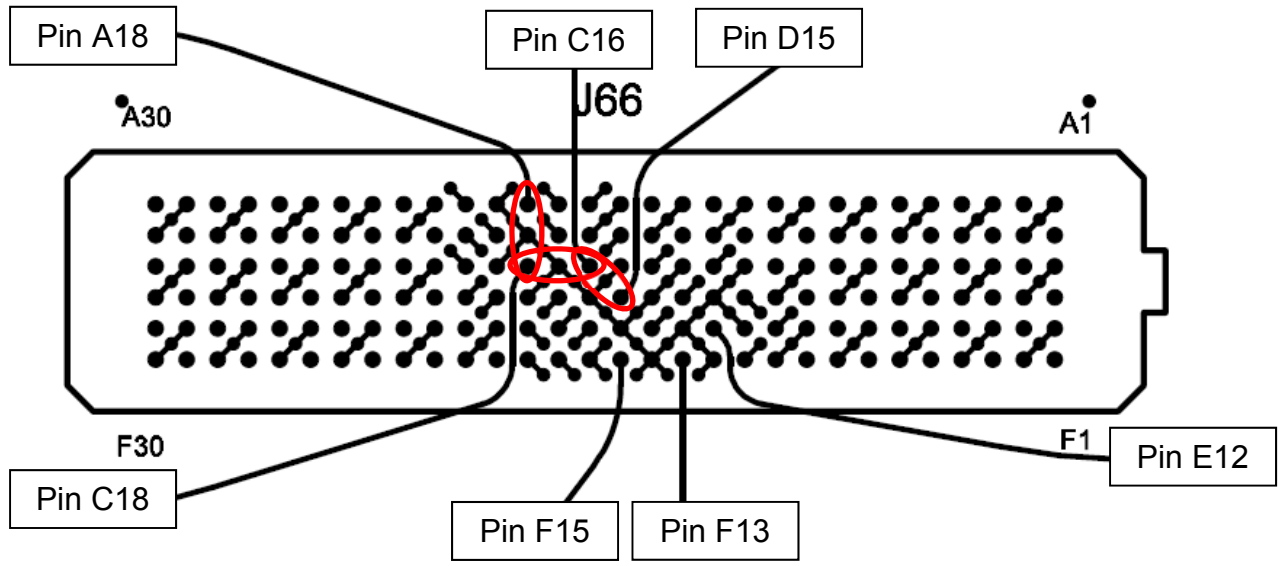
Table 10 – Differential Impedance (Ω) – High Density Vertical					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	104.6	104.6	104.6	104.2	102
Minimum Impedance	87.1	90.1	94.6	97.8	99.3



Series: SEAFP/SEAM
Description: 1.27mm x 1.27mm grid interconnect system, 7 mm Stack Height

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	0.37	0.31	0.25	0.13	<0.1
	SEAM_C16	SEAM_C18	0.67	0.57	0.38	0.17	0.11
	SEAM_C16	SEAM_D15	2.50	2.32	1.77	0.89	0.53
FEXT	SEAM_A18	SEAFP_C18	0.313	0.27	0.197	<0.1	<0.1
	SEAM_C16	SEAFP_C18	0.332	0.284	0.183	<0.1	<0.1
	SEAM_C16	SEAFP_D15	1.178	0.988	0.642	0.277	0.13

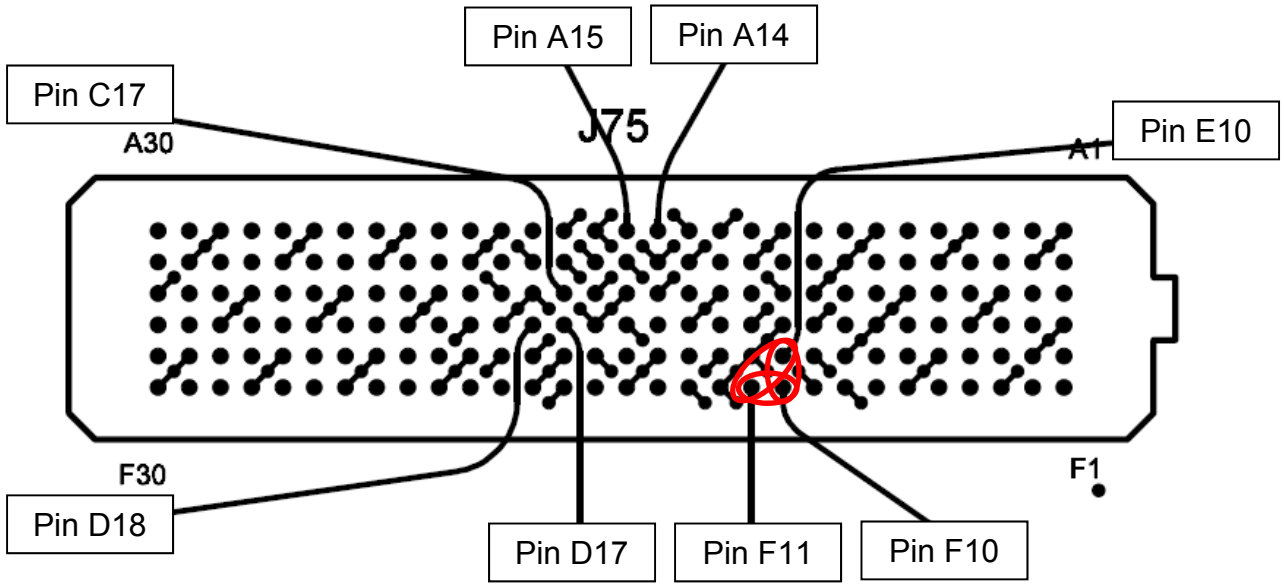
Single-Ended 1:1 S/G Pattern Crosstalk Pin Map



Series: SEAFP/SEAM
Description: 1.27mm x 1.27mm grid interconnect system, 7 mm Stack Height

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	9.36	8.29	6.94	3.68	1.90
	SEAM_E10	SEAM_F11	4.05	3.72	3.05	1.65	0.86
	SEAM_F10	SEAM_F11	16.18	14.93	12.36	6.66	3.37
FEXT	SEAM_E10	SEAFP_F10	3.18	2.69	1.845	0.956	0.484
	SEAM_E10	SEAFP_F11	2.456	2.201	1.661	0.871	0.439
	SEAM_F10	SEAFP_F11	5.61	4.85	3.61	1.9	0.93

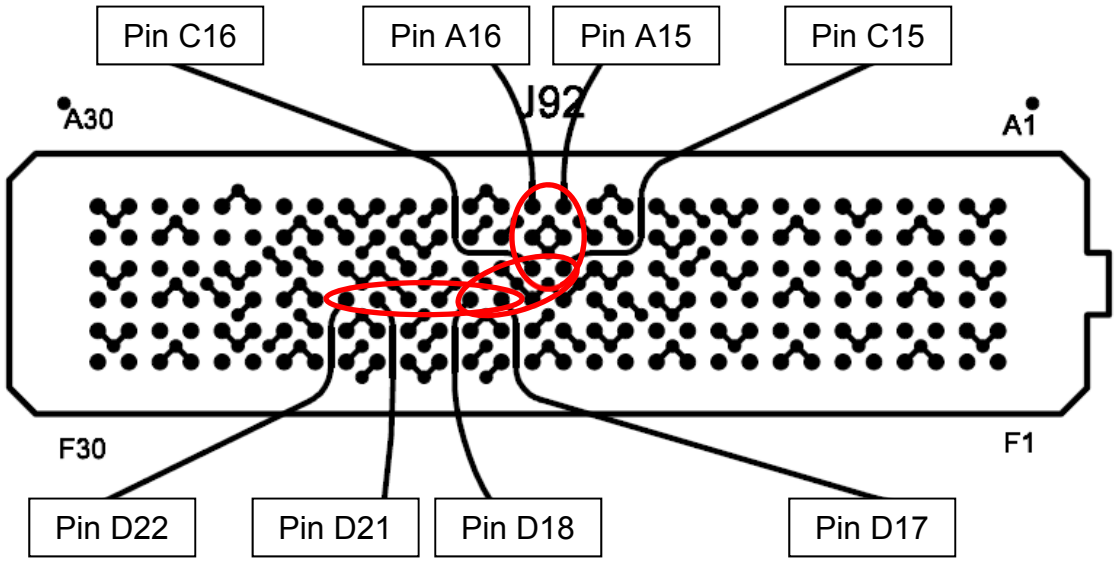
Single-Ended 2:1 S/G Pattern Crosstalk Pin Map



Series: SEAFP/SEAM
Description: 1.27mm x 1.27mm grid interconnect system, 7 mm Stack Height

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	0.15	0.11	<0.1	<0.1	<0.1
	SEAM_C15,C16	SEAM_D17,D18	0.95	0.85	0.65	0.31	0.16
	SEAM_D17,D18	SEAM_D21,D22	<0.1	<0.1	<0.1	<0.1	<0.1
FEXT	SEAM_A15,A16	SEAFP_C15,C16	0.20	0.17	0.12	<0.1	<0.1
	SEAM_C15,C16	SEAFP_D17,D18	0.26	0.18	<0.1	<0.1	<0.1
	SEAM_D17,D18	SEAFP_D21,D22	0.23	0.17	0.10	<0.1	<0.1

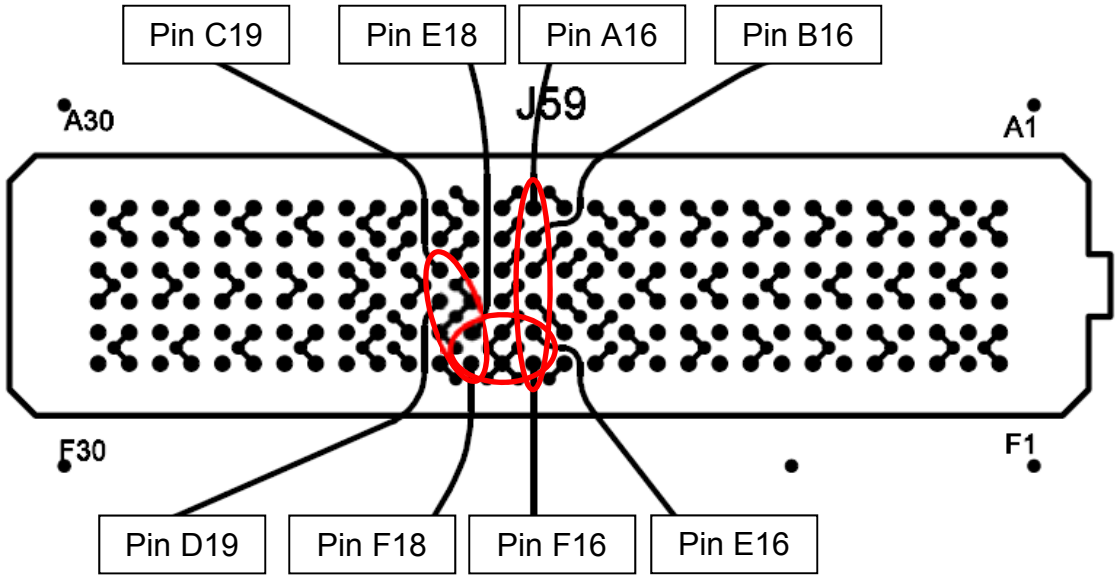
Differential Optimal Horizontal Crosstalk Pin Map



Series: SEAFP/SEAM
Description: 1.27mm x 1.27mm grid interconnect system, 7 mm Stack Height

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	1.31	1.16	0.84	0.37	0.18
	SEAM_E16,F16	SEAM_E18,F18	0.86	0.69	0.45	0.21	0.11
FEXT	SEAM_A16,B16	SEAFP_E16,F16	<0.1	<0.1	<0.1	<0.1	<0.1
	SEAM_C19,D19	SEAFP_E18,F18	0.53	0.43	0.25	0.12	<0.1
	SEAM_E16,F16	SEAFP_E18,F18	0.85	0.65	0.37	0.15	<0.1

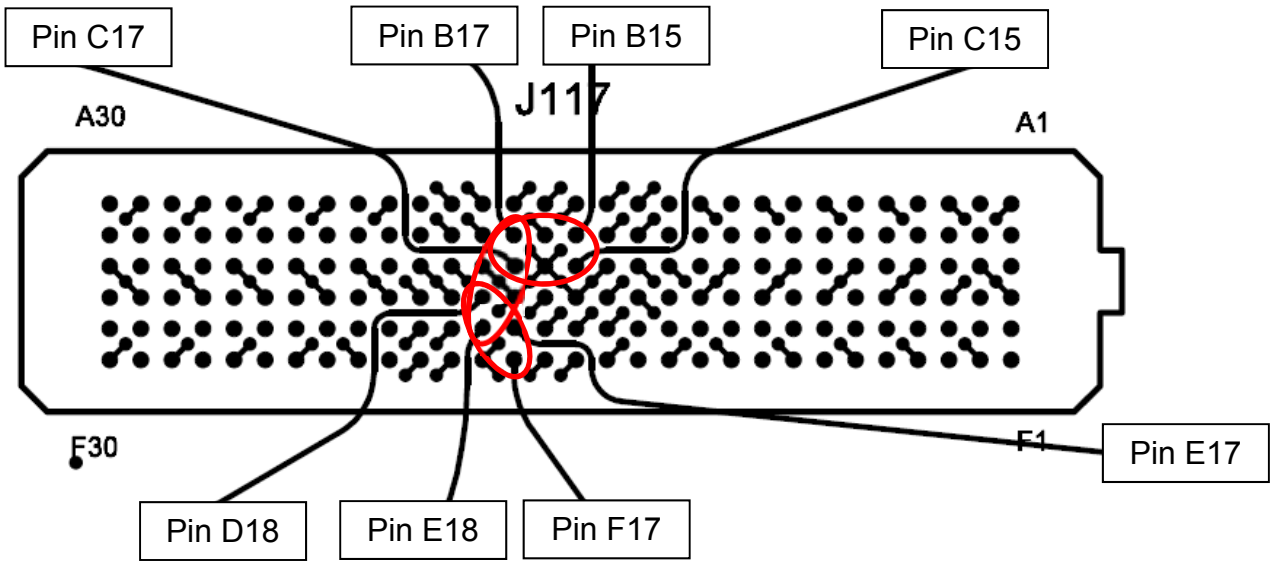
Differential Optimal Vertical Crosstalk Pin Map



Series: SEAFP/SEAM
Description: 1.27mm x 1.27mm grid interconnect system, 7 mm Stack Height

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	0.64	0.61	0.50	0.27	0.14
	SEAM_B17,C17	SEAM_D18,E18	1.07	0.91	0.70	0.34	0.17
	SEAM_D18,E18	SEAM_E17,F17	2.73	2.51	2.16	1.14	0.59
FEXT	SEAM_B15,C15	SEAM_B17,C17	0.98	0.69	0.44	0.23	0.13
	SEAM_B17,C17	SEAM_D18,E18	0.45	0.29	0.12	<0.1	<0.1
	SEAM_D18,E18	SEAFP_E17,F17	1.41	1.06	0.57	0.27	0.13

Differential High Density Vertical Crosstalk Pin Map



Series: SEAFP/SEAM
Description: 1.27mm x 1.27mm grid interconnect system, 7 mm Stack Height

Table 16 - Propagation Delay (Mated Connector)	
Single-Ended: 1:1 S/G	73 ps
Single-Ended: 2:1 S/G	77 ps
Differential: Optimal Horizontal	69 ps
Differential: Optimal Vertical	72 ps
Differential: High Density Vertical	72 ps