Series: SEAFP/SEAM Array Series
Description: 1.27mm x 1.27mm grid interconnect system, 16 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	63.99	62.33	58.80	54.14	52.58
Minimum Impedance	46.71	47.38	48.45	48.71	49.11

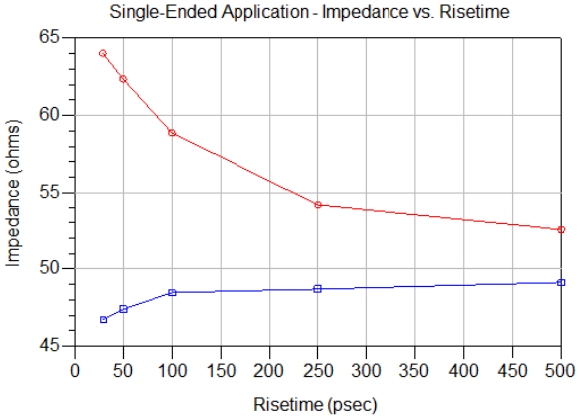
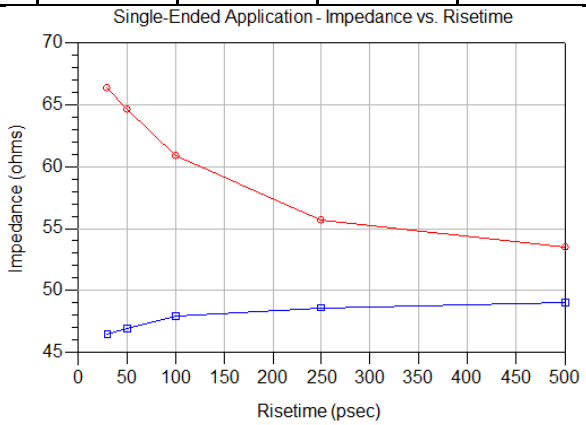


Table 7 – Single-End Impedance (Ω) – 2:1 S/G Pattern					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	66.41	64.68	60.92	55.78	53.47
Minimum Impedance	46.45	46.90	47.93	48.58	48.97



Series: SEAFP/SEAM Array Series
Description: 1.27mm x 1.27mm grid interconnect system, 16 mm Stack Height

Table 8 – Differential Impedance (Ω) – Optimal Horizontal					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	104.65	103.49	103.00	102.28	100.91
Minimum Impedance	84.68	87.33	92.01	95.13	96.86

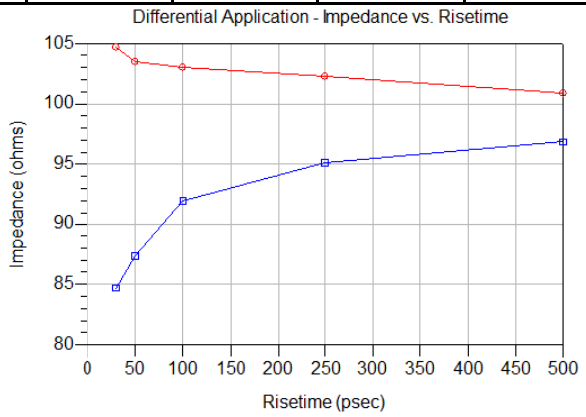
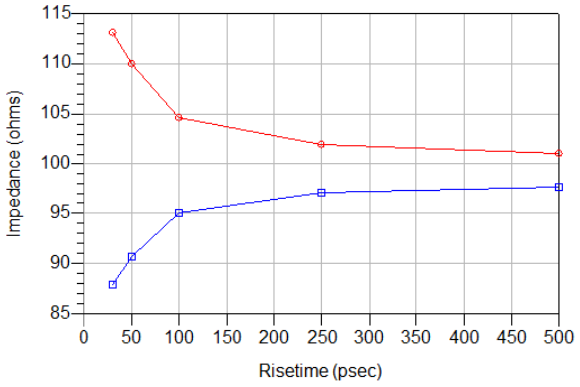
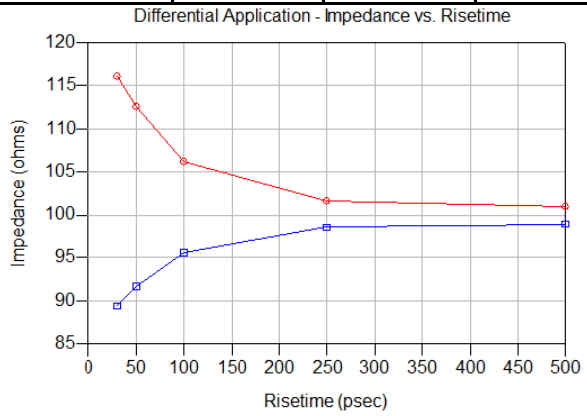


Table 9 – Differential Impedance (Ω) – Optimal Vertical					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	113.12	109.92	104.60	101.94	101.01
Minimum Impedance	87.92	90.71	95.01	97.14	97.70



Series: SEAFP/SEAM Array Series
Description: 1.27mm x 1.27mm grid interconnect system, 16 mm Stack Height

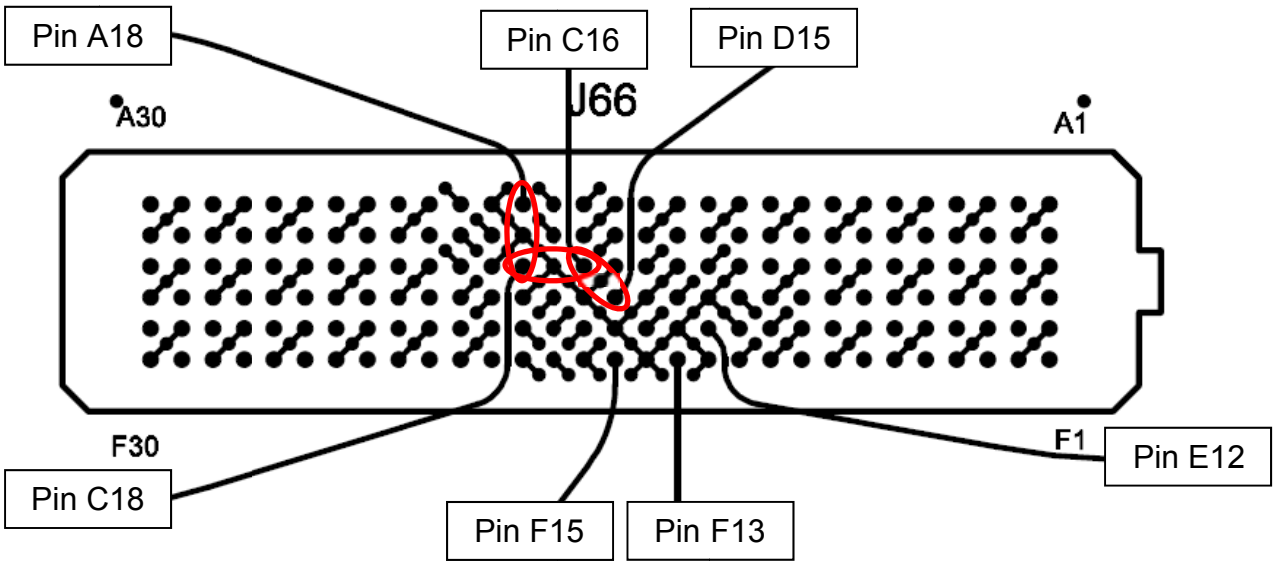
Table 10 – Differential Impedance (Ω) – High Density Vertical					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	116.03	112.56	106.15	101.64	100.98
Minimum Impedance	89.37	91.67	95.52	98.51	98.90



Series: SEAFP/SEAM Array Series
Description: 1.27mm x 1.27mm grid interconnect system, 16 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	0.28	0.24	0.21	0.14	<0.1
	SEAM_C16	SEAM_C18	0.62	0.59	0.45	0.28	0.16
	SEAM_C16	SEAM_D15	2.74	2.46	2.26	1.44	0.83
FEXT	SEAM_A18	SEAFP_C18	0.30	0.23	0.18	0.12	<0.1
	SEAM_C16	SEAFP_C18	0.42	0.27	0.21	0.14	<0.1
	SEAM_C16	SEAFP_D15	0.98	0.85	0.73	0.42	0.26

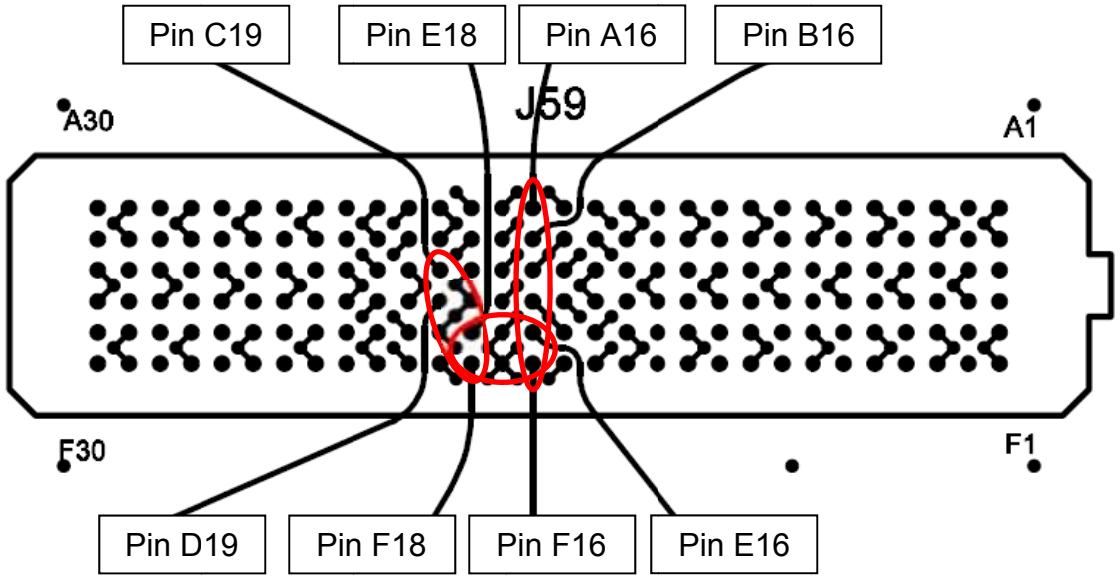
Single-Ended 1:1 S/G Pattern Crosstalk Pin Map



Series: SEAFP/SEAM Array Series
Description: 1.27mm x 1.27mm grid interconnect system, 16 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	1.22	1.11	0.98	0.61	0.32
	SEAM_E16,F16	SEAM_E18,F18	0.90	0.73	0.58	0.35	0.20
FEXT	SEAM_A16,B16	SEAFP_E16,F16	<0.1	<0.1	<0.1	<0.1	<0.1
	SEAM_C19,D19	SEAFP_E18,F18	0.76	0.56	0.31	0.12	<0.1
	SEAM_E16,F16	SEAFP_E18,F18	1.04	0.68	0.38	0.17	0.10

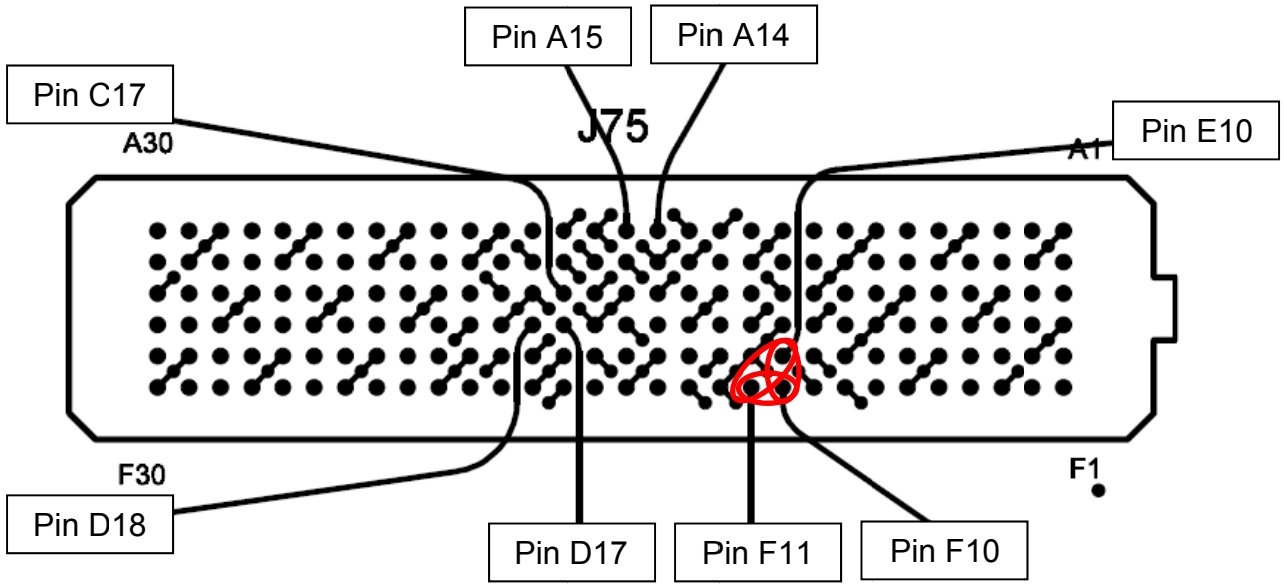
Differential Optimal Vertical Crosstalk Pin Map



Series: SEAFP/SEAM Array Series
Description: 1.27mm x 1.27mm grid interconnect system, 16 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	9.62	8.63	8.11	5.59	3.38
	SEAM_E10	SEAM_F11	3.90	3.73	3.48	2.44	1.56
	SEAM_F10	SEAM_F11	17.78	16.10	15.19	10.37	6.18
FEXT	SEAM_E10	SEAFP_F10	4.22	3.83	3.35	2.14	1.32
	SEAM_E10	SEAFP_F11	2.88	2.66	2.41	1.58	0.96
	SEAM_F10	SEAFP_F11	7.09	5.66	5.25	3.52	2.12

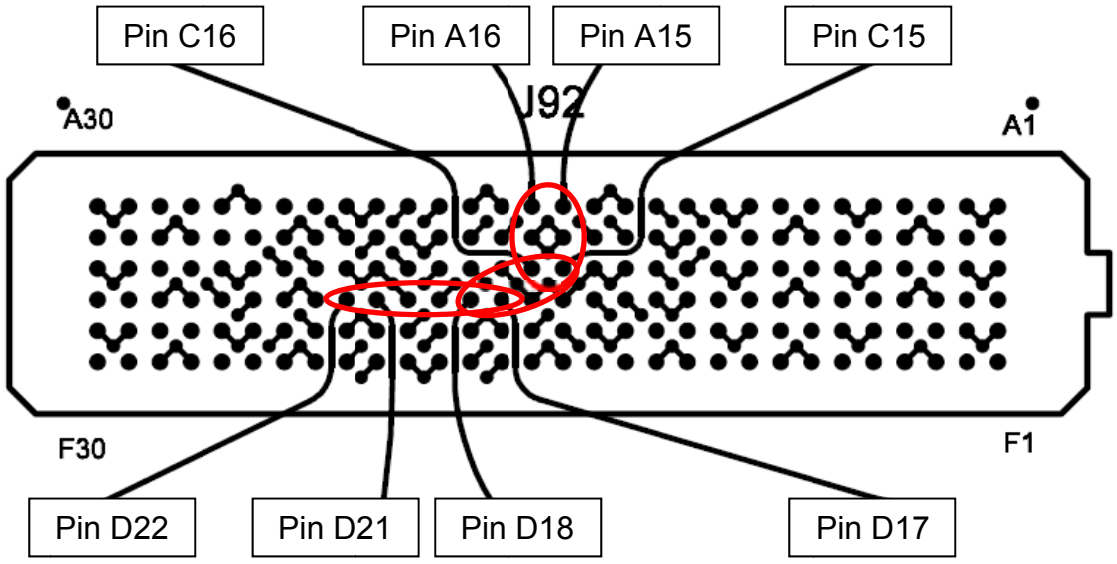
Single-Ended 2:1 S/G Pattern Crosstalk Pin Map



Series: SEAFP/SEAM Array Series
Description: 1.27mm x 1.27mm grid interconnect system, 16 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	0.20	0.14	<0.1	<0.1	<0.1
	SEAM_C15,C16	SEAM_D17,D18	0.94	0.83	0.78	0.49	0.27
	SEAM_D17,D18	SEAM_D21,D22	0.15	0.10	<0.1	<0.1	<0.1
FEXT	SEAM_A15,A16	SEAFP_C15,C16	0.22	0.16	0.10	<0.1	<0.1
	SEAM_C15,C16	SEAFP_D17,D18	0.17	0.13	<0.1	<0.1	<0.1
	SEAM_D17,D18	SEAFP_D21,D22	0.26	0.18	0.10	<0.1	<0.1

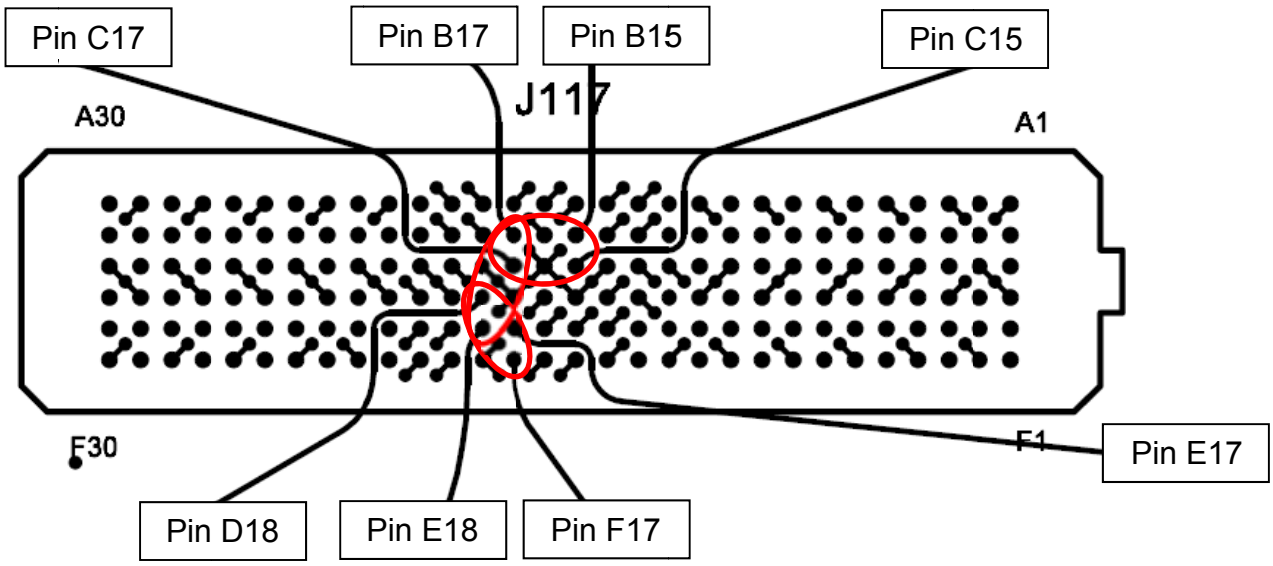
Differential Optimal Horizontal Crosstalk Pin Map



Series: SEAFP/SEAM Array Series
Description: 1.27mm x 1.27mm grid interconnect system, 16 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	0.75	0.71	0.64	0.45	0.28
	SEAM_B17,C17	SEAM_D18,E18	1.12	0.97	0.89	0.56	0.31
	SEAM_D18,E18	SEAM_E17,F17	4.16	3.92	3.41	2.16	1.22
FEXT	SEAM_B15,C15	SEAM_B17,C17	0.99	0.80	0.63	0.44	0.25
	SEAM_B17,C17	SEAM_D18,E18	0.45	0.28	0.14	<0.1	<0.1
	SEAM_D18,E18	SEAFP_E17,F17	1.05	0.80	0.42	0.10	<0.1

Differential High Density Vertical Crosstalk Pin Map



Series: SEAFP/SEAM Array Series
Description: 1.27mm x 1.27mm grid interconnect system, 16 mm Stack Height

Table 16 - Propagation Delay (Mated Connector)	
Single-Ended: 1:1 S/G	113 ps
Single-Ended: 2:1 S/G	118 ps
Differential: Optimal Horizontal	109 ps
Differential: Optimal Vertical	111 ps
Differential: High Density Vertical	110 ps