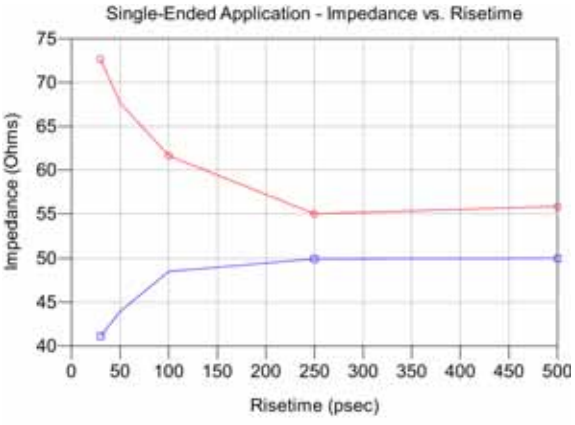
Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

Time Domain Data Summary

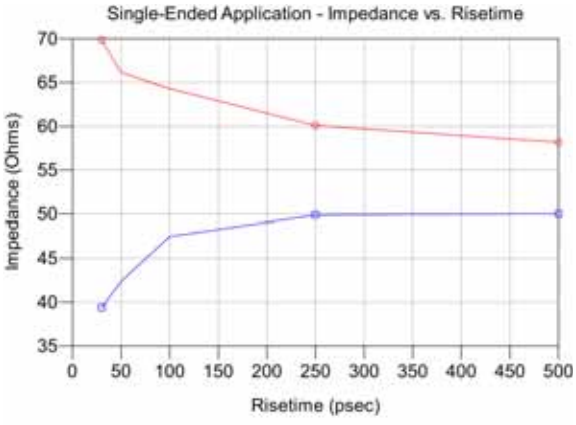
Table 6 – Single-End Impedance (Ω) – 1:1 S/G Pattern						
Driver	**Signal Risetime**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
SEAMP 161	**Maximum Impedance**	72.6	67.7	61.6	55	55.8
	Minimum Impedance	41.1	43.9	48.5	49.9	50
SEAMP 124	**Maximum Impedance**	69.9	66.1	64.3	60.1	58.2
	Minimum Impedance	39.4	42.4	47.5	49.9	50
SEAMP 126	**Maximum Impedance**	67.6	66.3	65.3	61.9	59.6
	Minimum Impedance	38.2	41.2	46.4	49.7	50
SEAMP 98	**Maximum Impedance**	66.8	62	61.4	59.7	59.1
	Minimum Impedance	38.8	41.7	46.7	49.7	50
SEAMP 80	**Maximum Impedance**	74.7	72.3	70.7	67.3	63.9
	Minimum Impedance	41.1	44	48.5	49.9	50

Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

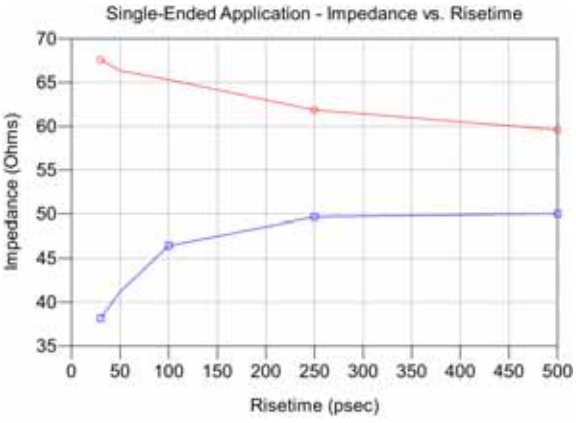
SEAMP161



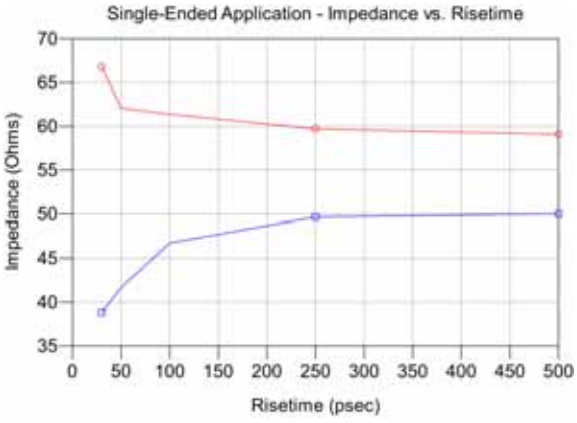
SEAMP124



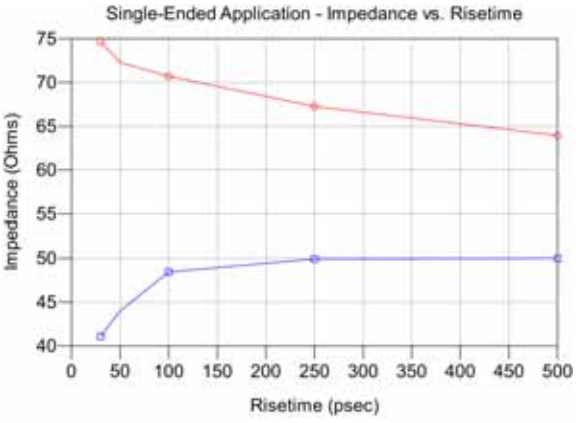
SEAMP126



SEAMP98



SEAMP80

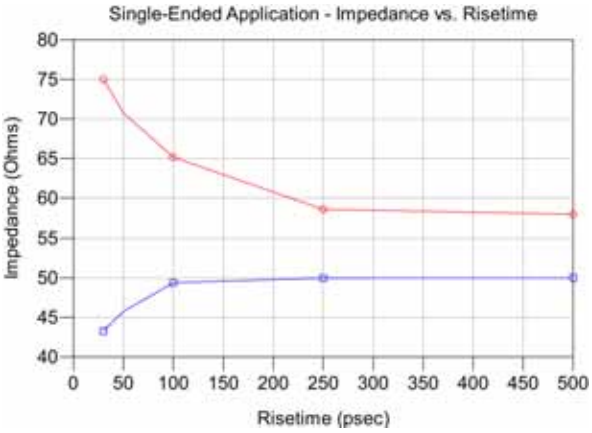


Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

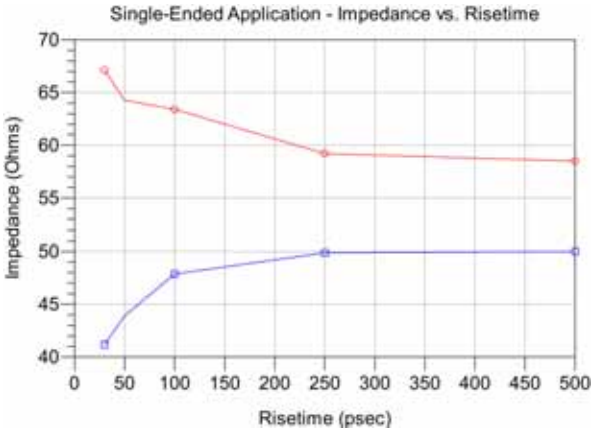
Table 7 – Single-End Impedance (Ω) – 2:1 S/G Pattern						
Driver	**Signal Risetime**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
SEAMP 151	**Maximum Impedance**	75	70.8	65.2	58.6	57.9
	Minimum Impedance	43.3	45.7	49.4	50	50
SEAMP 194	**Maximum Impedance**	67.1	64.3	63.4	59.2	58.5
	Minimum Impedance	41.2	43.9	47.9	49.9	50
SEAMP 166	**Maximum Impedance**	70.9	67.3	66	62.7	60.4
	Minimum Impedance	40.8	44	49.2	50	50
SEAMP 78	**Maximum Impedance**	71.5	68.1	66.8	64.3	61.9
	Minimum Impedance	42.2	45.3	49.7	50	50
SEAMP 70	**Maximum Impedance**	84.7	79.3	76.7	73.3	68.1
	Minimum Impedance	45.2	47.8	50	50	50

Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

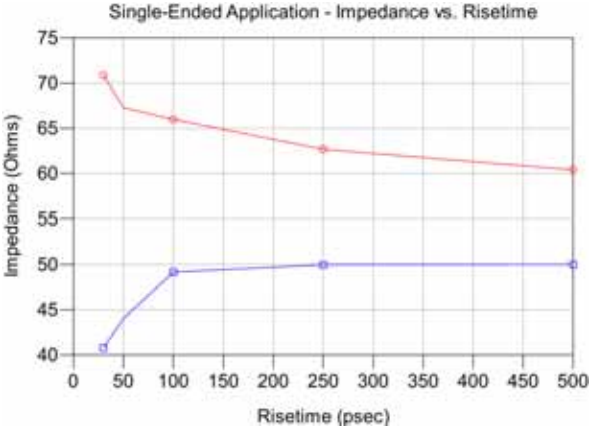
SEAMP151



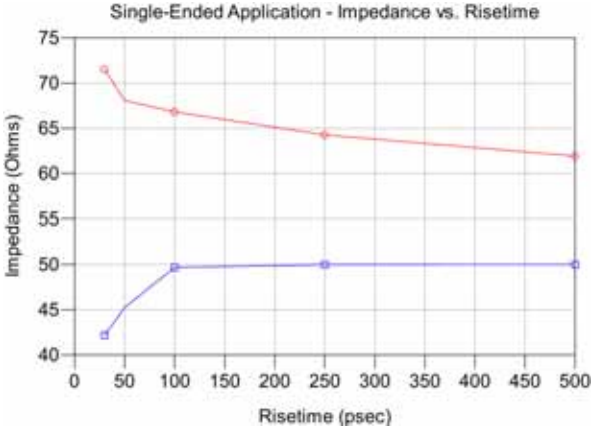
SEAMP194



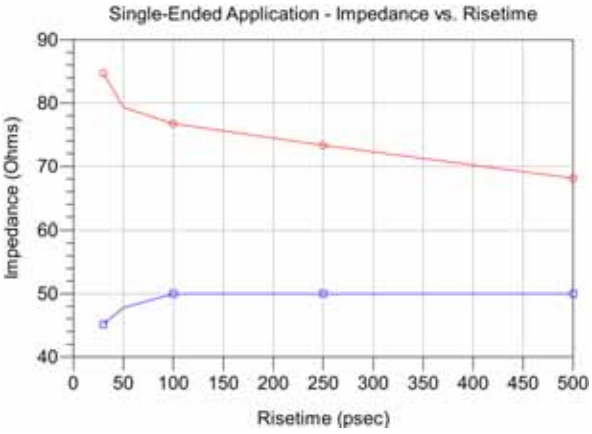
SEAMP166



SEAMP78



SEAMP70

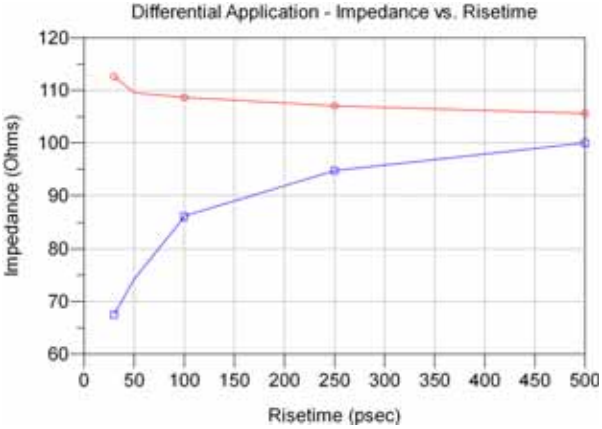


Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

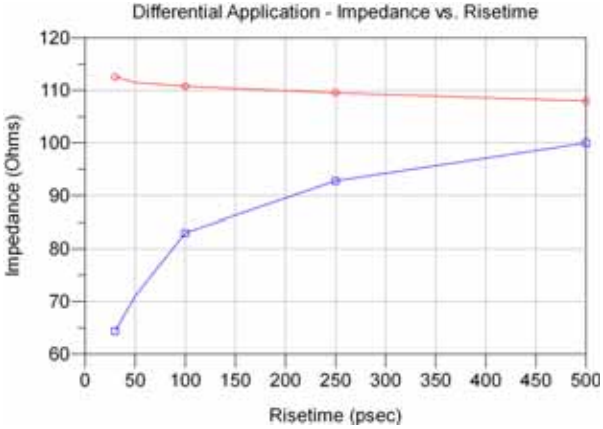
Table 8 – Differential Impedance (Ω) – Optimal Horizontal						
Driver	**Signal Risetime**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
SEAMP 61,71	**Maximum Impedance**	112.7	109.5	108.7	107	105.6
	Minimum Impedance	67.5	74.3	86.1	94.7	100
SEAMP 84,94	**Maximum Impedance**	112.6	111.5	110.8	109.5	108
	Minimum Impedance	64.4	71	83	92.8	100
SEAMP 127,137	**Maximum Impedance**	113.6	112.6	110.3	107.7	107.1
	Minimum Impedance	67.2	73.9	85.6	94.8	100
SEAMP 148,158	**Maximum Impedance**	115.8	114.4	112	108.4	107
	Minimum Impedance	68.5	75.4	87	95.7	98.9
SEAMP 210,220	**Maximum Impedance**	116.1	114	112.6	109.8	109.2
	Minimum Impedance	67.4	74	86.2	95	100

Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

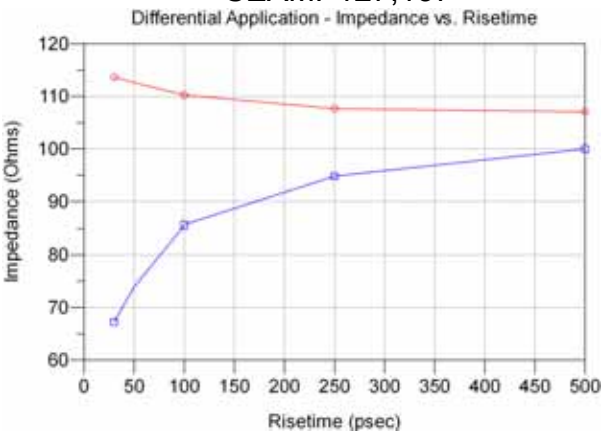
SEAMP61,71



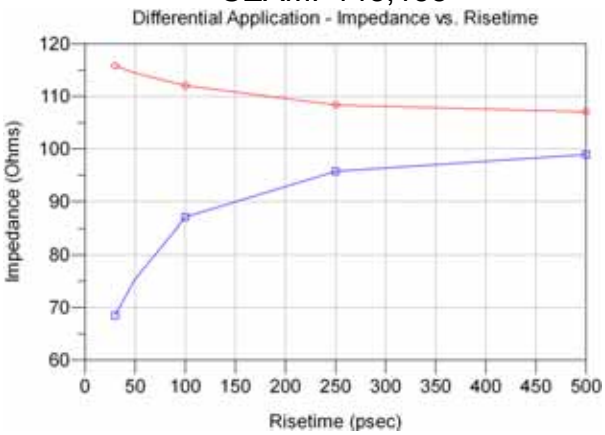
SEAMP84,94



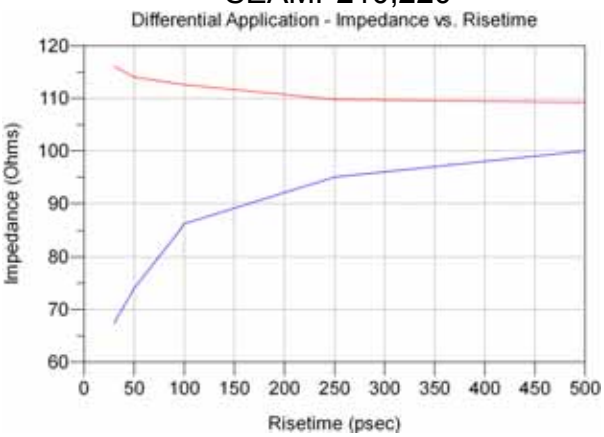
SEAMP127,137



SEAMP148,158



SEAMP210,220

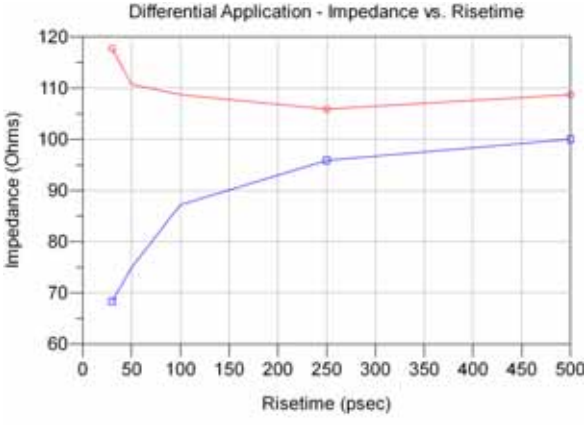


Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

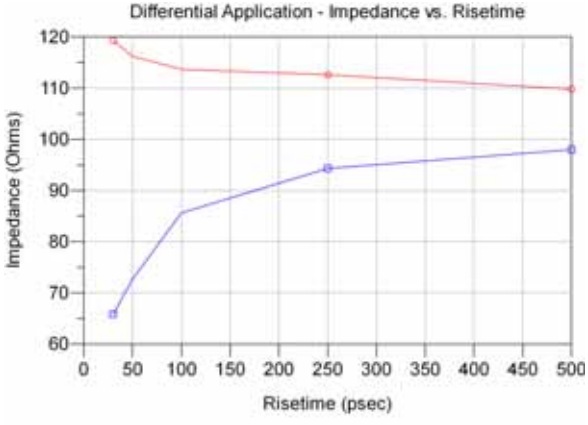
Table 9 – Differential Impedance (Ω) – Optimal Vertical						
Driver	**Signal Risetime**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
SEAMP 81,82	**Maximum Impedance**	117.7	110.7	108.7	105.9	108.7
	Minimum Impedance	68.3	74.9	87.2	95.8	100
SEAMP 93,94	**Maximum Impedance**	119.3	116.2	113.7	112.6	109.8
	Minimum Impedance	65.8	72.7	85.6	94.3	97.9
SEAMP 165,166	**Maximum Impedance**	118.4	111.9	109	107.6	107.9
	Minimum Impedance	68.9	75.3	87.6	96.5	100
SEAMP 157,158	**Maximum Impedance**	118.9	112.9	107.6	106.7	106.3
	Minimum Impedance	69.9	76.2	88.3	96.8	100
SEAMP 229,230	**Maximum Impedance**	116.5	113.8	112.5	111.3	109.4
	Minimum Impedance	69	75.6	88.3	96.5	100

Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

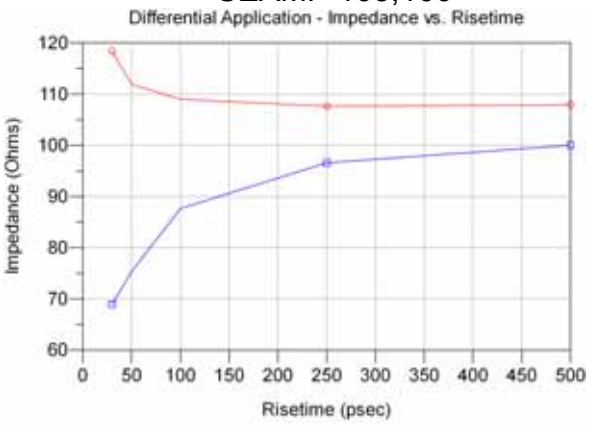
SEAMP81,82



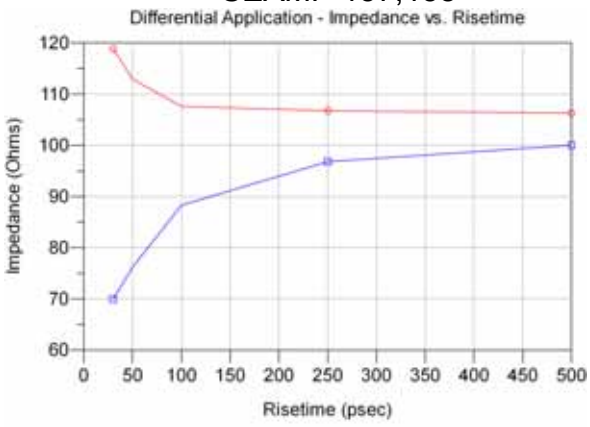
SEAMP93,94



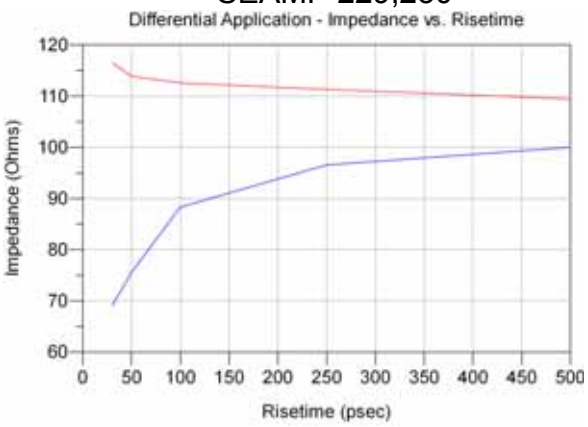
SEAMP 165,166



SEAMP 157,158



SEAMP 229,230

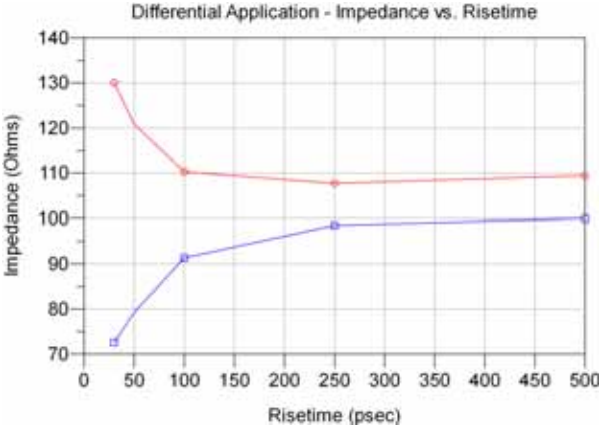


Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

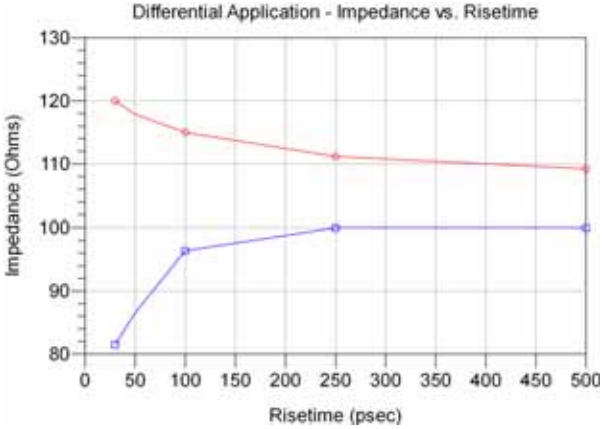
Table 10 – Differential Impedance (Ω) – High Density Vertical						
Driver	**Signal Risetime**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
SEAMP 121,122	**Maximum Impedance**	130.1	120.9	110.2	107.7	109.4
	Minimum Impedance	72.6	79.2	91.3	98.5	100
SEAMP 134,135	**Maximum Impedance**	120	117.9	115	111.2	109.2
	Minimum Impedance	81.5	86.5	96.4	100	100
SEAMP 157,158	**Maximum Impedance**	113	111.7	111	110.4	110.4
	Minimum Impedance	63	70.3	83.9	94.4	100
SEAMP 218,219	**Maximum Impedance**	112.8	112.1	110.7	109.4	107.9
	Minimum Impedance	71.9	78.7	89.3	96.9	100
SEAMP 229,230	**Maximum Impedance**	131.9	122.1	112.9	108.8	111
	Minimum Impedance	84.2	90.8	99.8	100	100

Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

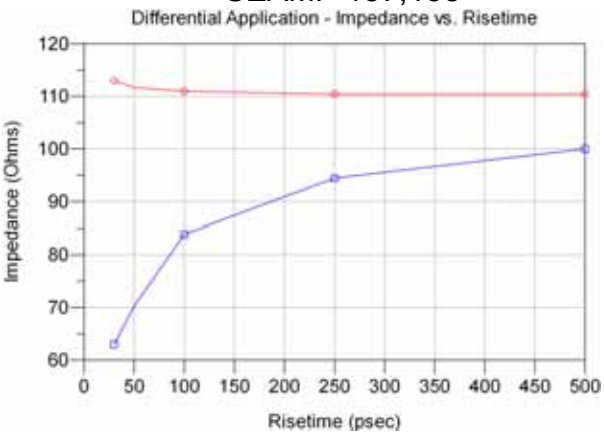
SEAMP121,122



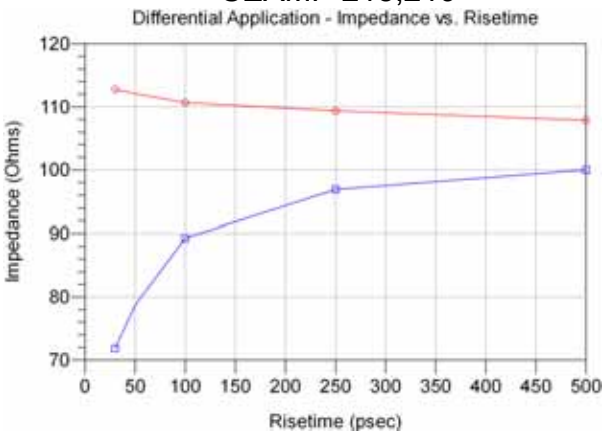
SEAMP134,135



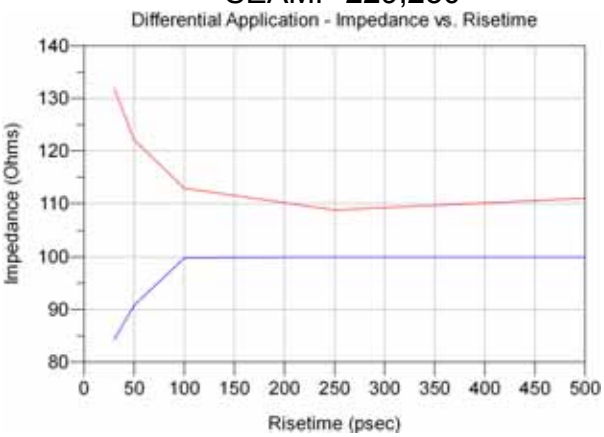
SEAMP 157,158



SEAMP 218,219



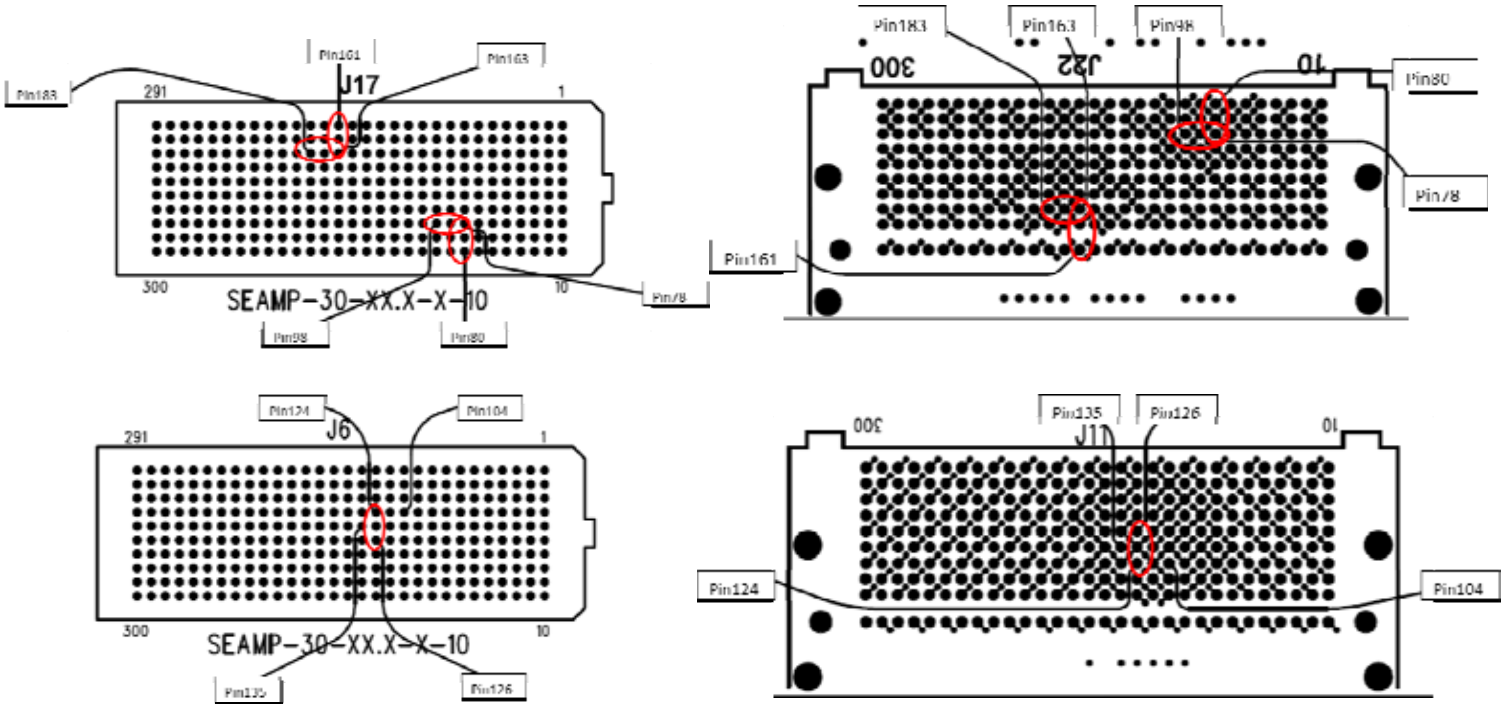
SEAMP 229,230



Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

Table 11 - Single-Ended Crosstalk (%) – 1:1 S/G Pattern							
Input(t_r)	Driver	Receiver	30ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAMP_161	SEAMP_163	0.32	0.29	0.25	0.16	<0.1
	SEAMP_163	SEAMP_183	0.58	0.49	0.44	0.32	0.21
	SEAMP_124	SEAMP_126	0.51	0.41	0.29	0.21	0.14
	SEAMP_78	SEAMP_98	0.58	0.5	0.44	0.37	0.26
	SEAMP_78	SEAMP_80	1.36	0.82	0.51	0.29	0.22
FEXT	SEAMP_161	SEAF-RA_163	0.32	0.27	0.24	0.16	0.1
	SEAMP_163	SEAF-RA_183	0.37	0.22	<0.1	<0.1	<0.1
	SEAMP_124	SEAF-RA_126	0.67	0.45	0.2	0.12	<0.1
	SEAMP_78	SEAF-RA_98	1.02	0.77	0.49	0.27	0.19
	SEAMP_78	SEAF-RA_80	1.95	1.39	0.55	0.23	0.16

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

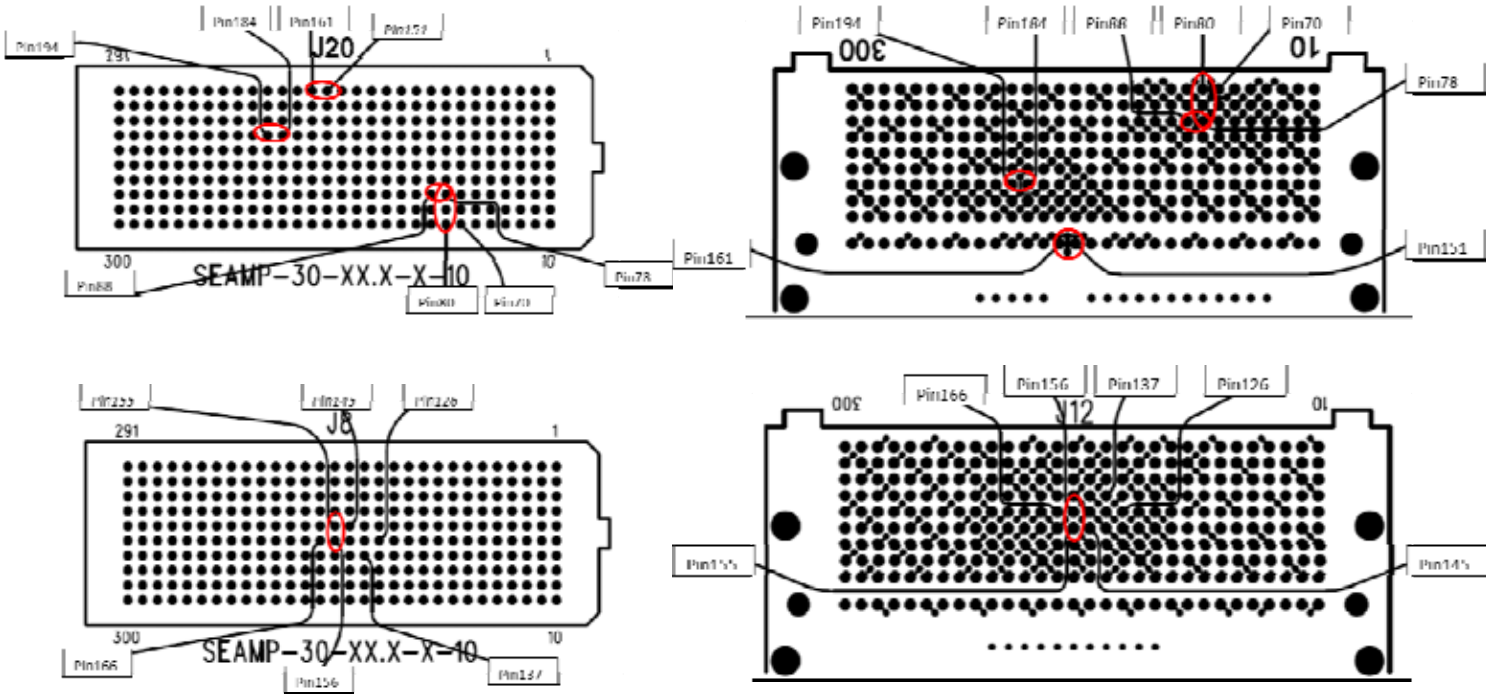


SEAMP SEAF_RA

Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

Table 12 - Single-Ended Crosstalk (%) – 2:1 S/G Pattern							
Input(t_r)	Driver	Receiver	30ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAMP_151	SEAMP_161	16	15.2	13.56	8.41	4.73
	SEAMP_184	SEAMP_194	12.33	11.71	11.16	8.42	5.08
	SEAMP_155	SEAMP_156	12.36	11.57	10.13	7.9	5.02
	SEAMP_78	SEAMP_88	12.15	11.59	11.2	9.62	6.58
	SEAMP_78	SEAMP_80	1.17	0.9	0.64	0.41	0.34
FEXT	SEAMP_151	SEAF-RA_161	7.87	5.79	4.63	2.83	1.65
	SEAMP_184	SEAF-RA_194	4.33	3.42	3	2.35	1.5
	SEAMP_155	SEAF-RA_156	4.67	3.53	3.04	2.07	1.16
	SEAMP_78	SEAF-RA_88	4.71	3.94	3.23	2.76	1.99
	SEAMP_78	SEAF-RA_80	1.97	1.49	0.75	0.39	0.3

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

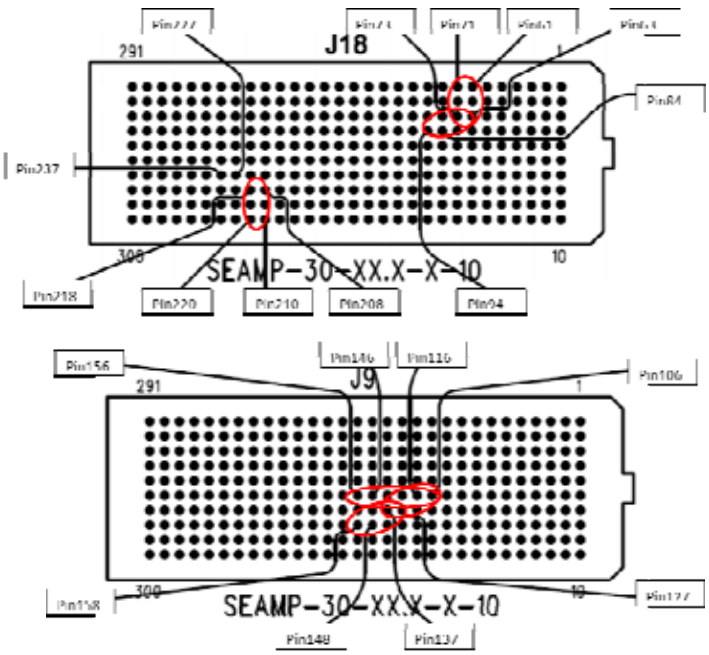


SEAMP SEAF_RA

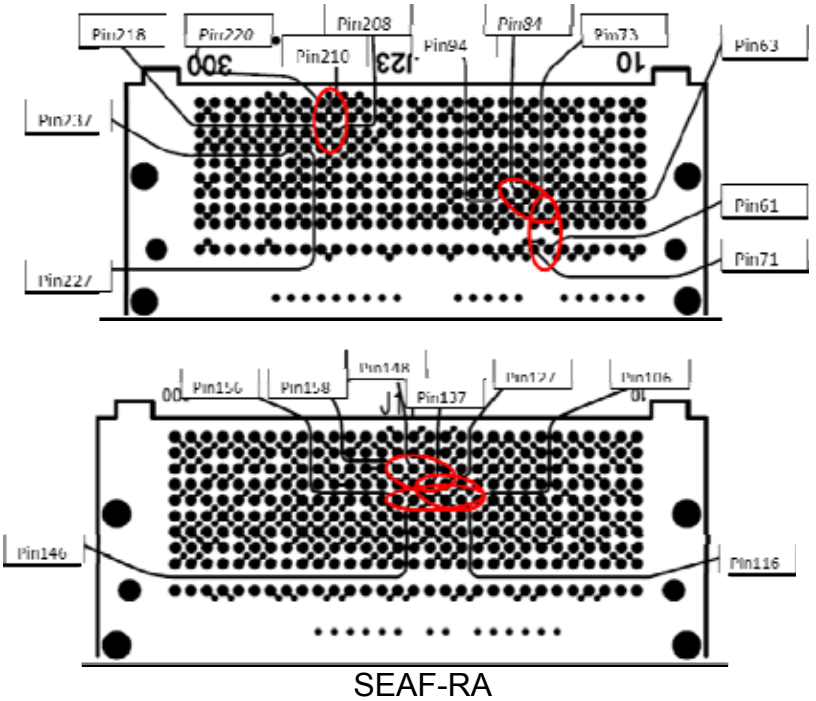
Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

Table 13 - Differential Crosstalk (%) – Optimal Horizontal							
Input(t_r)	Driver	Receiver	30ps	50 ps	100 ps	250 ps	500 ps
NEXT	SEAMP_61,71	SEAMP_63,73	0.18	0.12	<0.1	<0.1	<0.1
	SEAMP_63,73	SEAMP_84,94	0.91	0.85	0.82	0.6	0.36
	SEAMP_106,116	SEAMP_146,156	0.16	0.12	0.05	<0.1	<0.1
	SEAMP_106,116	SEAMP_127,137	1.00	0.95	0.89	0.76	0.50
	SEAMP_127, 137	SEAMP_148, 158	1.02	0.93	0.84	0.76	0.52
	SEAMP_208, 218	SEAMP_210, 220	1.21	0.71	0.3	0.13	<0.1
FEXT	SEAMP_61,71	SEAF-RA_63, 73	0.33	0.29	0.19	<0.1	<0.1
	SEAMP_63,73	SEAF-RA_84,94	0.21	0.12	<0.1	<0.1	<0.1
	SEAMP_106,116	SEAF-RA_146,156	0.23	0.17	0.1	<0.1	<0.1
	SEAMP_106,116	SEAF-RA_127,137	0.30	0.20	<0.1	<0.1	<0.1
	SEAMP_127, 137	SEAF-RA_148,158	0.65	0.4	0.19	<0.1	<0.1
	SEAMP_208, 218	SEAF-RA_210,220	1.22	0.86	0.28	<0.1	<0.1

Differential Optimal Horizontal Crosstalk Pin Map



SEAMP

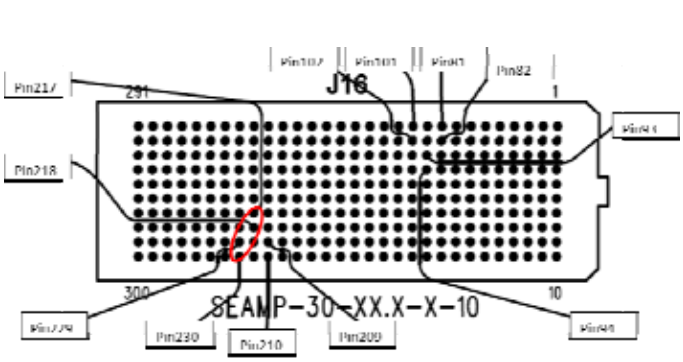


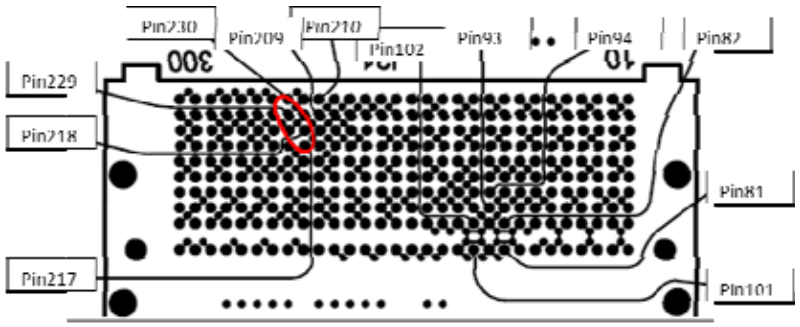
SEAF-RA

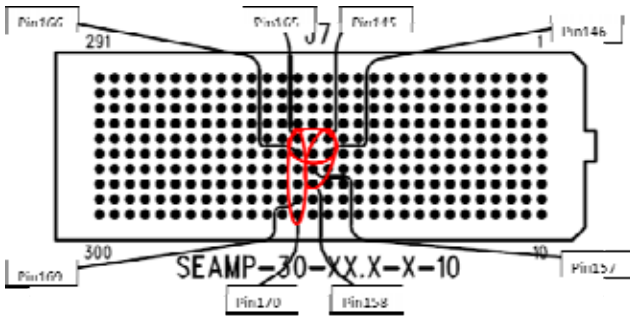
Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

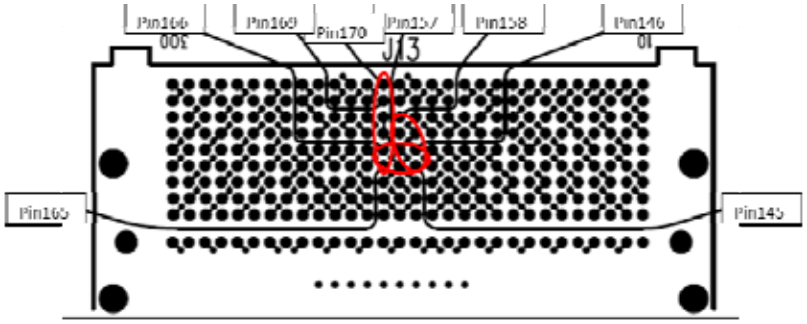
Table 14 - Differential Crosstalk (%) – Optimal Vertical							
Input(t_r)	**Driver**	**Receiver**	**30ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
NEXT	SEAMP_145, 146	SEAMP_165, 166	0.3	0.26	0.23	0.16	0.1
	SEAMP_145, 146	SEAMP_157, 158	1.07	1.01	0.95	0.82	0.52
	SEAMP_165,166	SEAMP_169, 170	0.22	0.16	<0.1	<0.1	<0.1
	SEAMP_217,218	SEAMP_229, 230	1.13	1.06	0.96	0.87	0.61
FEXT	SEAMP_145, 146	SEAF-RA_165, 166	0.4	0.32	0.24	0.12	<0.1
	SEAMP_145, 146	SEAF-RA_157, 158	0.42	0.23	0.1	<0.1	<0.1
	SEAMP_165,166	SEAF-RA_169, 170	0.39	0.29	0.15	<0.1	<0.1
	SEAMP_217,218	SEAF-RA_229, 230	0.69	0.53	0.31	0.12	<0.1

Differential Optimal Vertical Crosstalk Pin Map







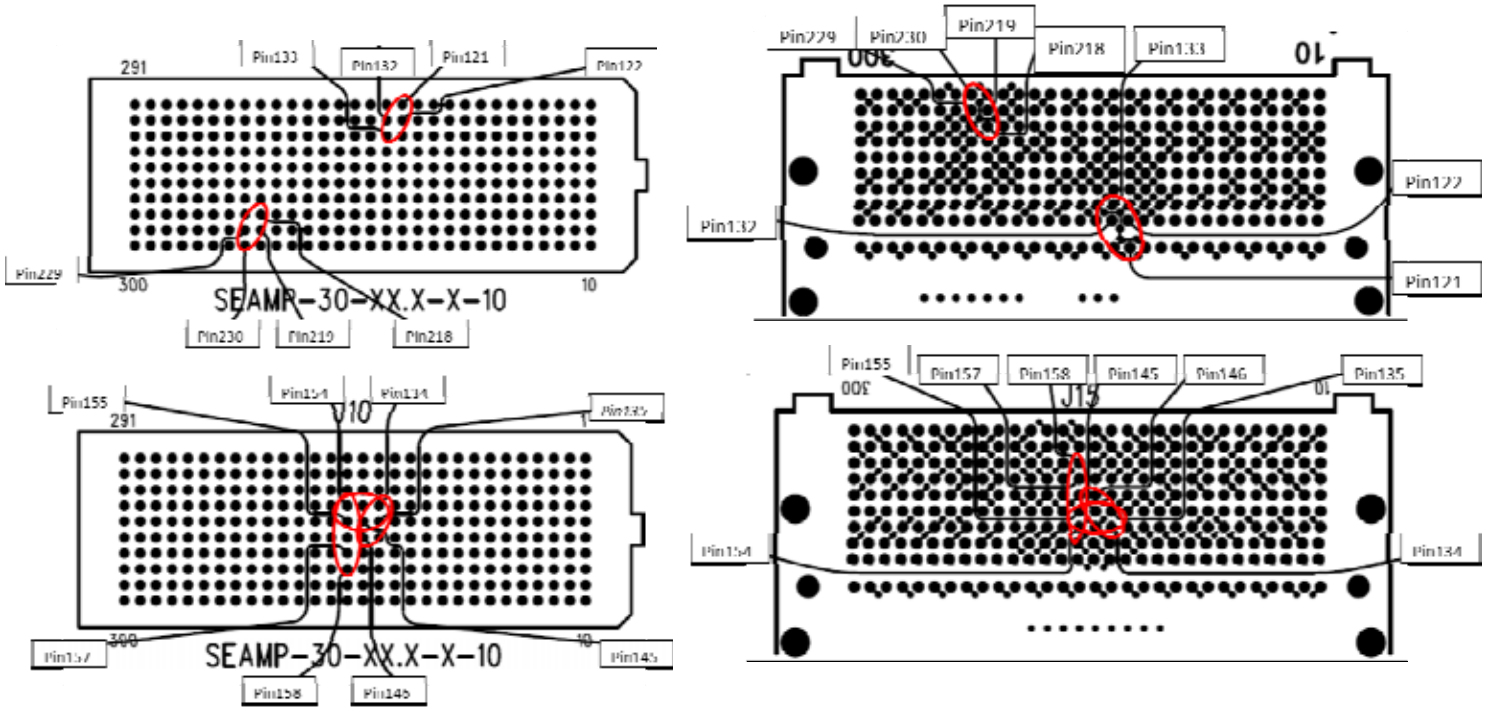


SEAMP SEAF_RA

Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

Table 15 - Differential Crosstalk (%) – High Density Vertical							
Input(t_r)	**Driver**	**Receiver**	**30ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
NEXT	SEAMP_121,122	SEAMP_132,133	3.42	3.17	2.76	1.86	1.04
	SEAMP_134,135	SEAMP_154,155	0.78	0.62	0.54	0.41	0.25
	SEAMP_134,135	SEAMP_145,146	3.78	3.46	2.95	2.22	1.34
	SEAMP_154,155	SEAMP_157,158	0.30	0.20	0.16	0.13	<0.1
	SEAMP_218, 219	SEAMP_229, 230	3.47	3.20	2.80	2.24	1.46
FEXT	SEAMP_121,122	SEAF-RA_132, 133	0.67	0.35	0.19	<0.1	<0.1
	SEAMP_134,135	SEAF-RA_154,155	0.64	0.57	0.44	0.36	0.23
	SEAMP_134,135	SEAF-RA_145,146	1.16	0.72	0.29	0.17	0.11
	SEAMP_154,155	SEAF-RA_157,158	0.64	0.48	0.28	0.14	<0.1
	SEAMP_218, 219	SEAF-RA_229, 230	1.56	0.94	0.45	0.19	0.1

Differential High Density Vertical Crosstalk Pin Map



SEAMP SEAF_RA

Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

Table 16 - Propagation Delay (Mated Connector)	
Single-Ended: 1:1 S/G, row1	101 ps
Single-Ended: 1:1 S/G, row4	142 ps
Single-Ended: 1:1 S/G, row6	166 ps
Single-Ended: 1:1 S/G, row8	195 ps
Single-Ended: 1:1 S/G, row10	220 ps
Single-Ended: 2:1 S/G, row1	108 ps
Single-Ended: 2:1 S/G, row4	146 ps
Single-Ended: 2:1 S/G, row6	172 ps
Single-Ended: 2:1 S/G, row8	206 ps
Single-Ended: 2:1 S/G, row10	229 ps
Differential: Optimal Horizontal, row1	97 ps
Differential: Optimal Horizontal, row4	137 ps
Differential: Optimal Horizontal, row7	179 ps
Differential: Optimal Horizontal, row8	194 ps
Differential: Optimal Horizontal, row10	193 ps
Differential: Optimal Vertical, row1,2	106 ps
Differential: Optimal Vertical, row3,4	137 ps
Differential: Optimal Vertical, row5,6	162 ps
Differential: Optimal Vertical, row7,8	192 ps
Differential: Optimal Vertical, row9,10	192 ps

Series: SEAMP/SEAF-RA
Description: 1.27mm x 1.27mm grid interconnect system, Vertical (Press-Fit) to Right Angle

Differential: High Density Vertical, row1,2	112 ps
Differential: High Density Vertical, row4,5	155 ps
Differential: High Density Vertical, row7,8	193 ps
Differential: High Density Vertical, row8,9	209 ps
Differential: High Density Vertical, row9,10	213 ps