Series: LPAM/LPAF
Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 4mm 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	58.6	53.8	53.6	52.8	51.8
Minimum Impedance	43.5	46.8	49.2	49.7	50.0

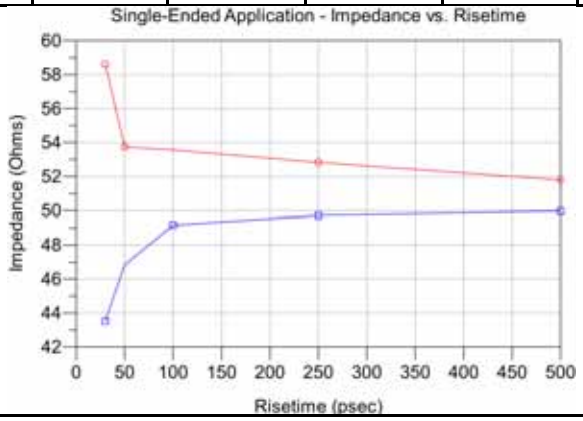
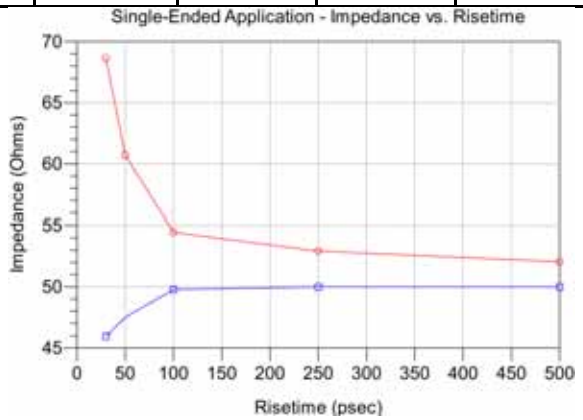


Table 7 – Single-End Impedance (Ω) – 2:1 S/G Pattern					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	68.7	60.7	54.5	52.9	52.1
Minimum Impedance	46.0	47.5	49.8	50	50



Series: LPAM/LPAF
Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 4mm Stack Height

Table 8 – Differential Impedance (Ω) – Optimal Horizontal					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	108.1	103.5	103.3	102.6	101.4
Minimum Impedance	84.8	88.5	94.3	98.1	99.4

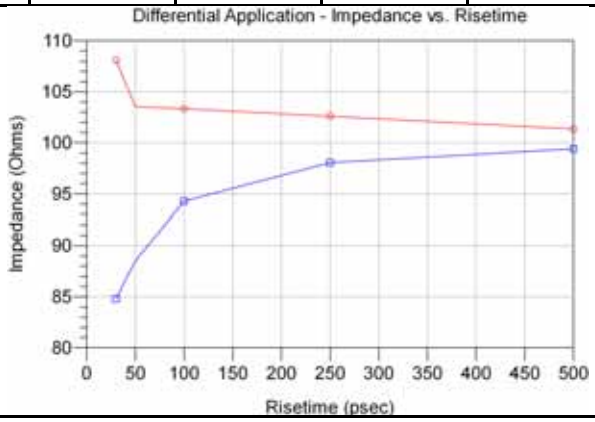
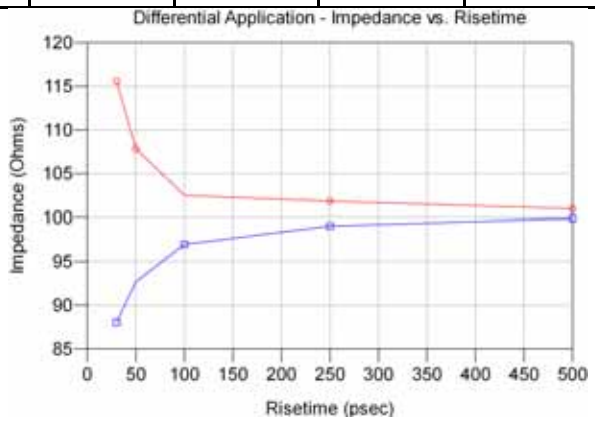
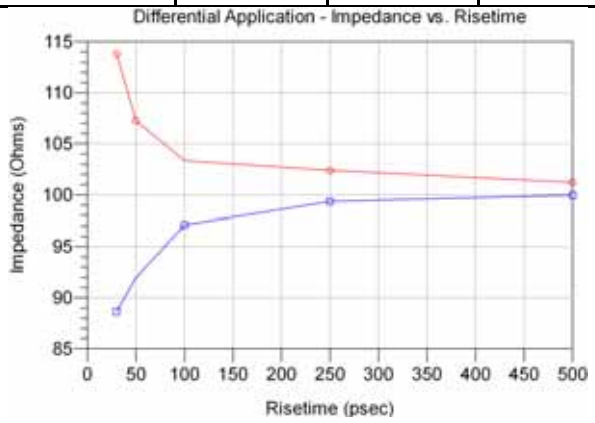


Table 9 – Differential Impedance (Ω) – Optimal Vertical					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	115.6	107.8	102.5	101.8	101
Minimum Impedance	88.1	92.7	97.0	99.1	100



Series: LPAM/LPAF
Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 4mm Stack Height

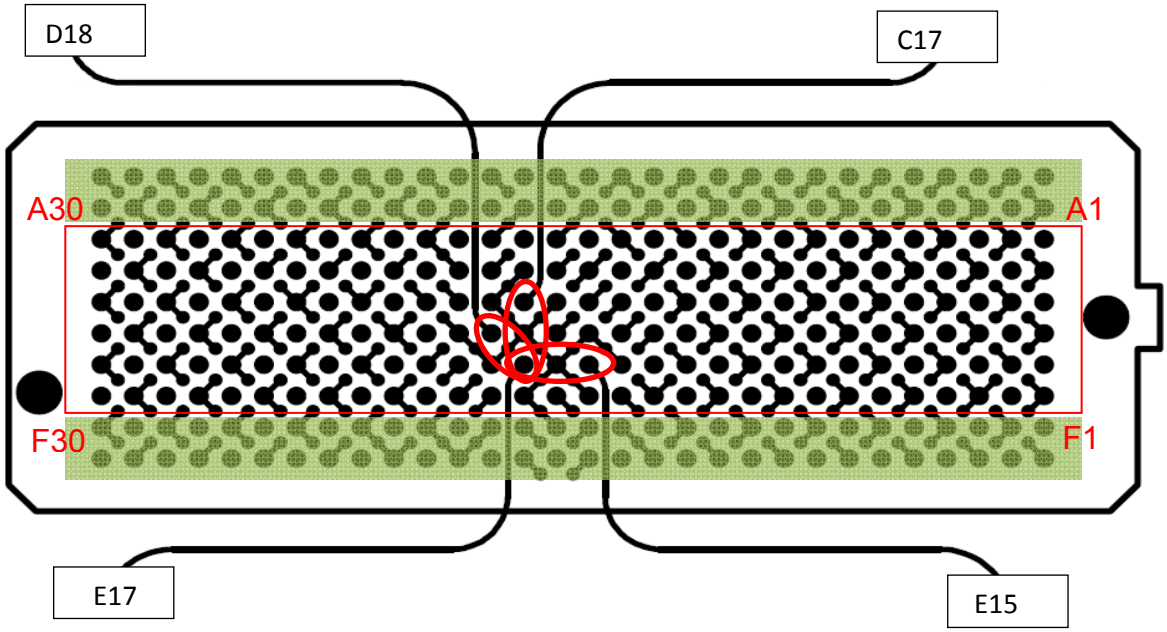
Table 10 – Differential Impedance (Ω) – High Density Vertical					
Signal Risetime	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
Maximum Impedance	113.8	107.3	103.4	102.4	101.2
Minimum Impedance	88.6	92	97.1	99.4	100



Series: LPAM/LPAF
Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 4mm 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	LPAM_E17	LPAM_C17	0.23	0.20	0.11	<0.1	<0.1
	LPAM_E17	LPAM_D18	2.21	1.80	1.03	0.43	0.22
	LPAM_E17	LPAM_E15	0.41	0.27	0.15	<0.1	<0.1
FEXT	LPAM_E17	LPAF_C17	0.20	0.14	<0.1	<0.1	<0.1
	LPAM_E17	LPAF_D18	0.89	0.56	0.25	<0.1	<0.1
	LPAM_E17	LPAF_E15	0.51	0.31	0.13	<0.1	<0.1

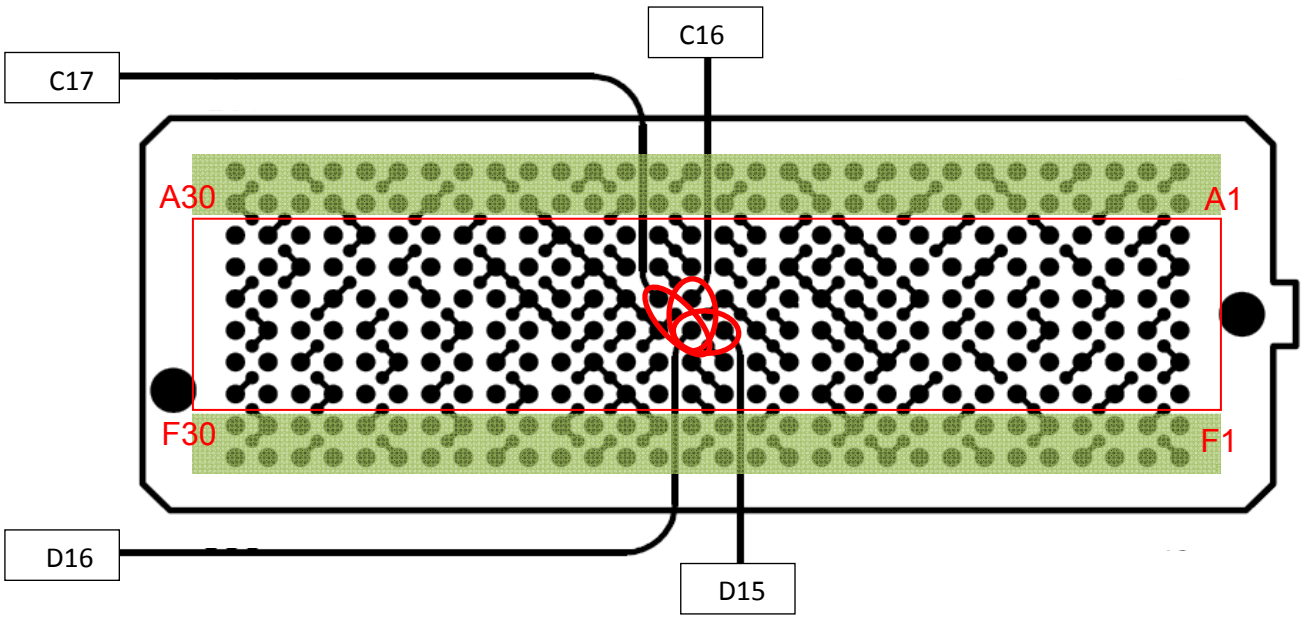
Single-Ended 1:1 S/G Pattern Crosstalk Pin Map



Series: LPAM/LPAF
Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 4mm 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	LPAM_D16	LPAM_C16	8.52	6.93	4.04	1.68	0.85
	LPAM_D16	LPAM_C17	3.32	2.79	1.71	0.73	0.37
	LPAM_D16	LPAM_D15	9.94	8.08	4.75	2.01	1.02
FEXT	LPAM_D16	LPAF_C16	4.80	3.49	1.88	0.74	0.38
	LPAM_D16	LPAF_C17	2.36	1.72	0.96	0.39	0.20
	LPAM_D16	LPAF_D15	4.31	3.02	1.57	0.60	0.30

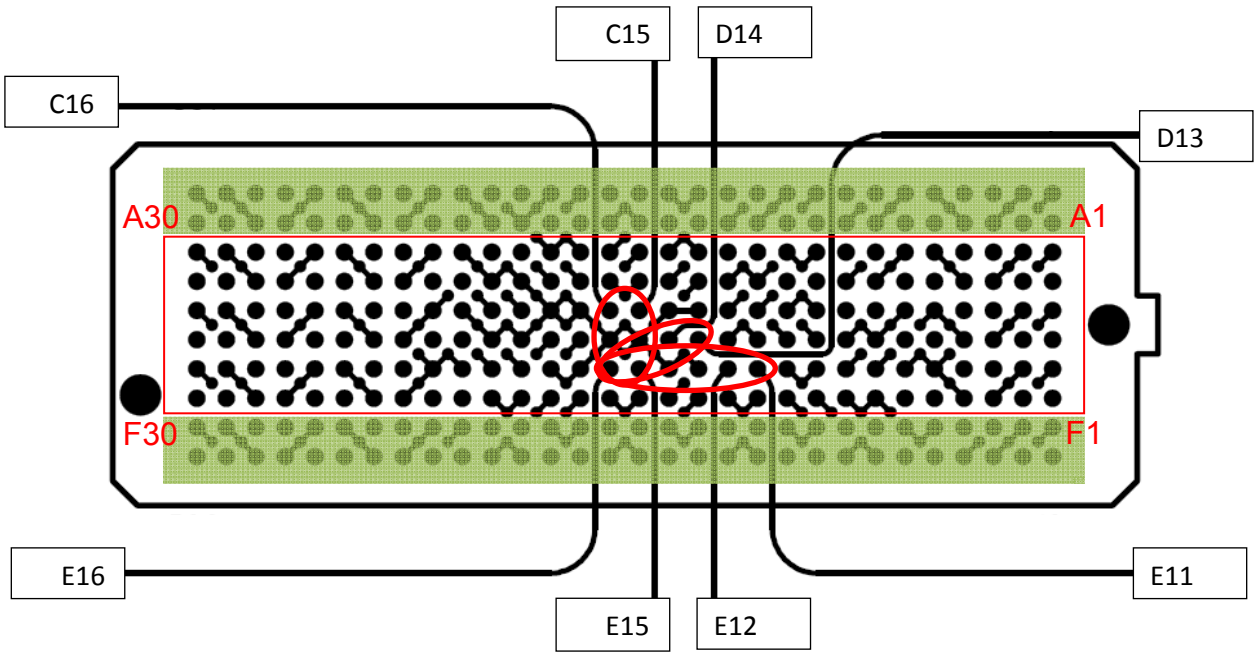
Single-Ended 2:1 S/G Pattern Crosstalk Pin Map



Series: LPAM/LPAF
Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 4mm Stack Height

Table 13 - Differential Crosstalk (%) – Optimal Horizontal							
Input(tr)	**Driver**	**Receiver**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
NEXT	LPAM_E15,E16	LPAM_C15,C16	0.10	<0.1	<0.1	<0.1	<0.1
	LPAM_E15,E16	LPAM_D13,D14	0.79	0.64	0.36	0.15	<0.1
	LPAM_E15,E16	LPAM_E11,E12	0.43	0.26	0.14	<0.1	<0.1
FEXT	LPAM_E15,E16	LPAF_C15,C16	<0.1	<0.1	<0.1	<0.1	<0.1
	LPAM_E15,E16	LPAF_D13,D14	0.19	0.11	<0.1	<0.1	<0.1
	LPAM_E15,E16	LPAF_E11,E12	1.32	0.79	0.45	0.19	0.10

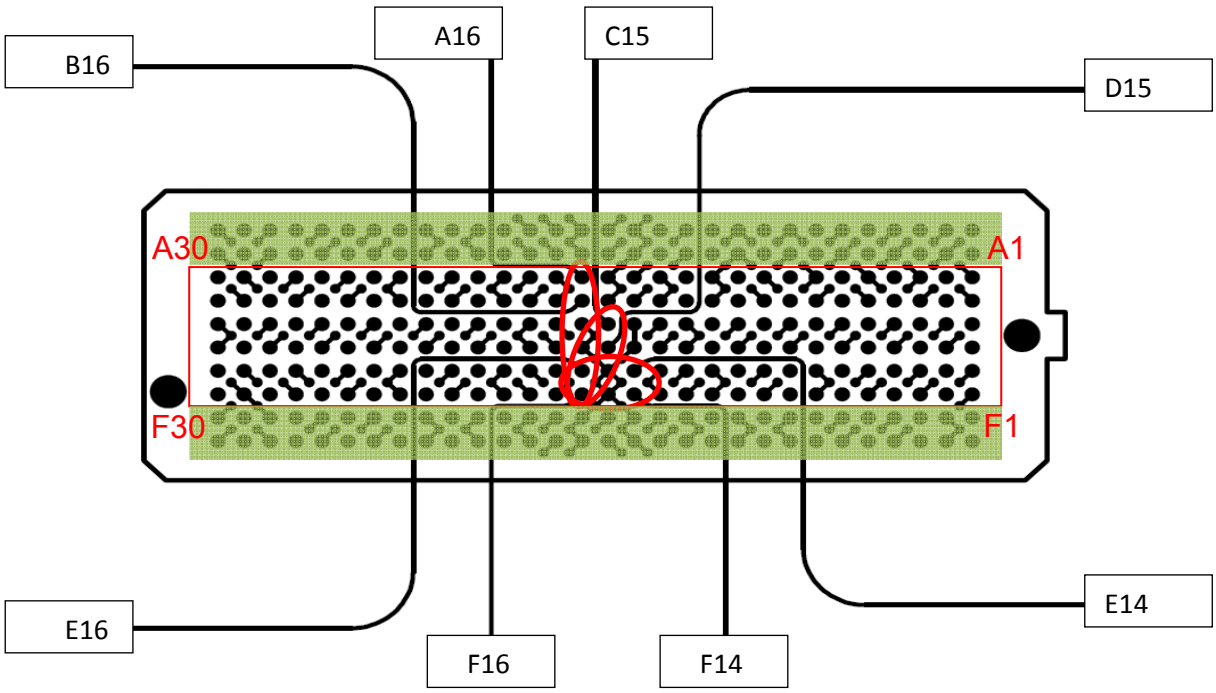
Differential Optimal Horizontal Crosstalk Pin Map



Series: LPAM/LPAF
Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 4mm Stack Height

Table 14 - Differential Crosstalk (%) – Optimal Vertical							
Input(tr)	**Driver**	**Receiver**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
NEXT	LPAM_E16,F16	LPAM_A16,B16	0.21	0.15	<0.1	<0.1	<0.1
	LPAM_E16,F16	LPAM_C15,D15	0.86	0.67	0.37	0.15	<0.1
	LPAM_E16,F16	LPAM_E14,F14	0.55	0.41	0.22	<0.1	<0.1
FEXT	LPAM_E16,F16	LPAF_A16,B16	0.34	0.26	0.14	<0.1	<0.1
	LPAM_E16,F16	LPAF_C15,D15	0.14	0.10	<0.1	<0.1	<0.1
	LPAM_E16,F16	LPAF_E14,F14	0.40	0.26	0.13	<0.1	<0.1

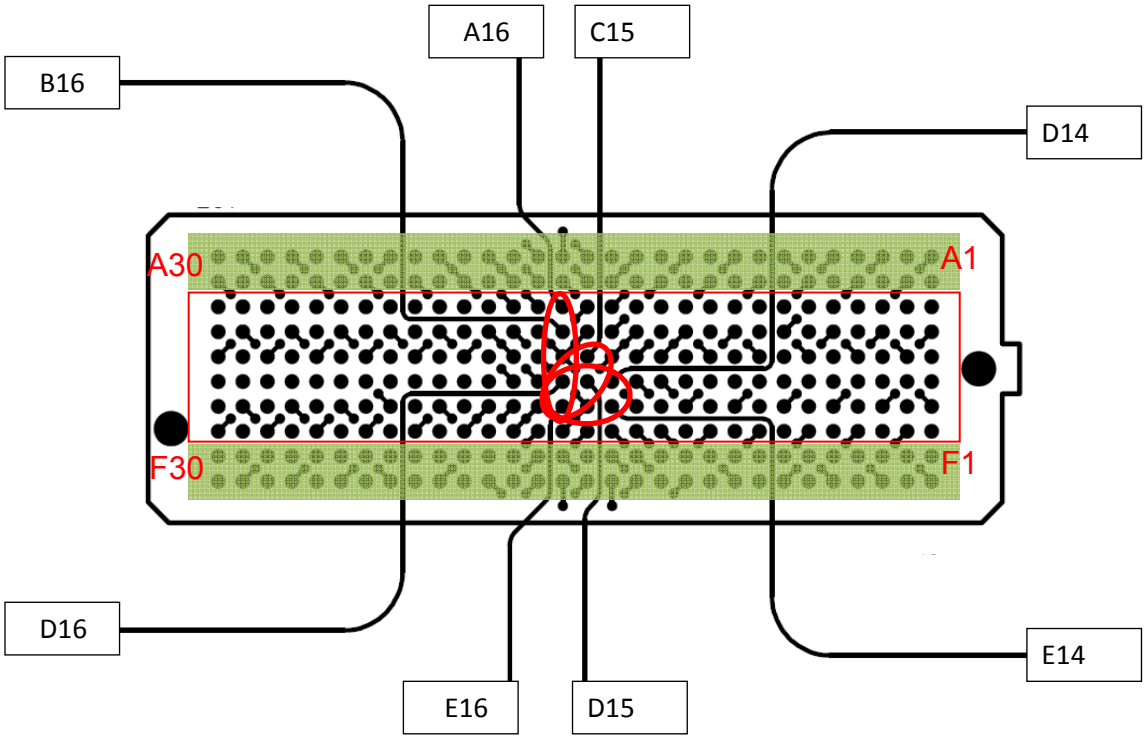
Differential Optimal Vertical Crosstalk Pin Map



Series: LPAM/LPAF
Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 4mm Stack Height

Table 15 - Differential Crosstalk (%) – High Density Vertical							
Input(tr)	**Driver**	**Receiver**	**30 ps**	**50 ps**	**100 ps**	**250 ps**	**500 ps**
NEXT	LPAM_D16,E16	LPAM_A16,B16	0.11	<0.1	<0.1	<0.1	<0.1
	LPAM_D16,E16	LPAM_C15,D15	2.53	2.08	1.27	0.55	0.27
	LPAM_D16,E16	LPAM_D14,E14	0.43	0.37	0.24	0.11	<0.1
FEXT	LPAM_D16,E16	LPAF_A16,B16	0.18	0.15	<0.1	<0.1	<0.1
	LPAM_D16,E16	LPAF_C15,D15	0.60	0.38	0.19	<0.1	<0.1
	LPAM_D16,E16	LPAF_D14,E14	0.50	0.37	0.18	<0.1	<0.1

Differential High Density Vertical Crosstalk Pin Map



Series: LPAM/LPAF
Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 4mm Stack Height

Table 16 - Propagation Delay (Mated Connector)	
Single-Ended: 1:1 S/G	28 ps
Single-Ended: 2:1 S/G	26 ps
Differential: Optimal Horizontal	28 ps
Differential: Optimal Vertical	25 ps
Differential: High Density Vertical	29 ps