

Series: LPAM/LPAF

Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 5mm 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	50.47	49.40	49.21	48.83	48.78
Minimum Impedance	46.32	46.89	46.97	47.12	47.66

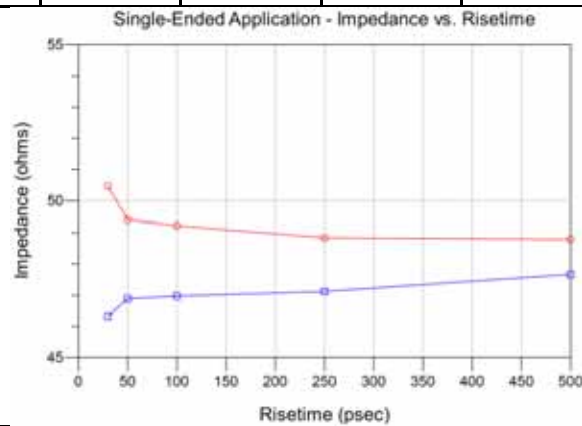
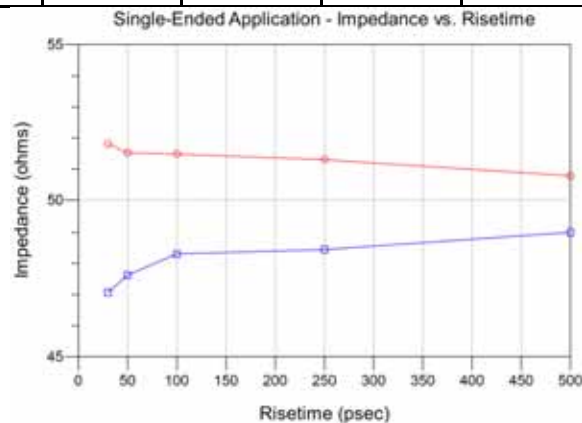


Table 7 – Single-End Impedance (Ω) – 2:1 S/G Pattern					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	51.81	51.52	51.48	51.30	50.78
Minimum Impedance	47.06	47.62	48.30	48.44	48.99



Series: LPAM/LPAF

Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 5mm Stack Height

Table 8 – Differential Impedance (Ω) – Optimal Horizontal					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	98.75	98.52	98.24	97.31	96.54
Minimum Impedance	87.72	88.59	90.14	93.62	94.95

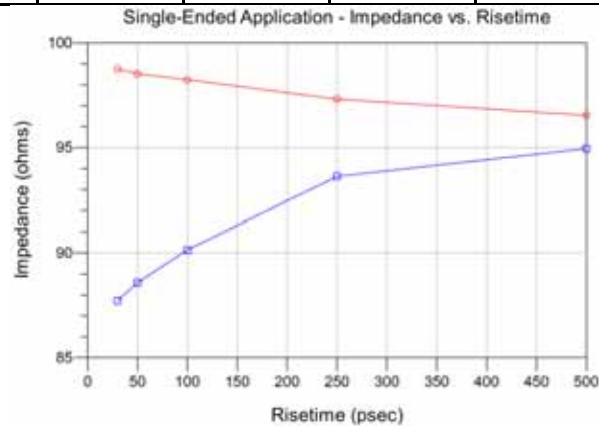
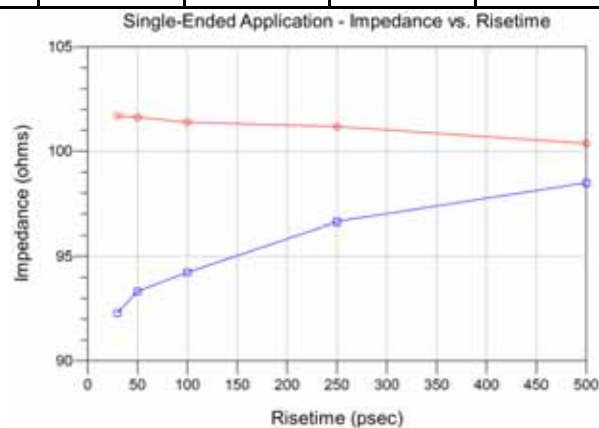


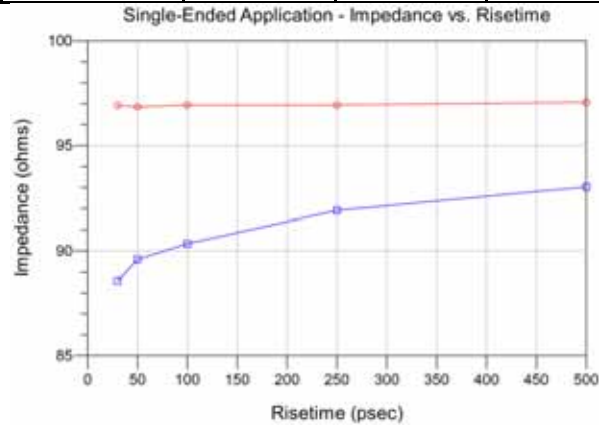
Table 9 – Differential Impedance (Ω) – Optimal Vertical					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	101.69	101.62	101.38	101.18	100.37
Minimum Impedance	92.29	93.33	94.24	96.64	98.48



Series: LPAM/LPAF

Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 5mm Stack Height

Table 10 – Differential Impedance (Ω) – High Density Vertical					
Signal Risetime	30 ps	50 ps	100 ps	250 ps	500 ps
Maximum Impedance	96.91	96.85	96.93	96.94	97.06
Minimum Impedance	88.57	89.60	90.34	91.91	93.03

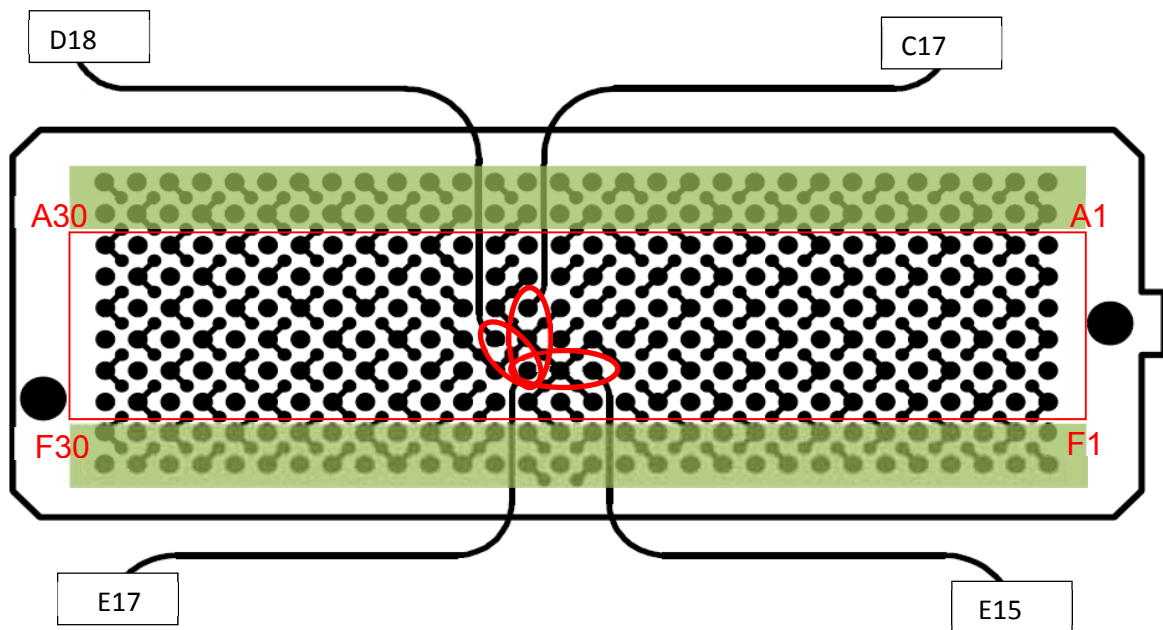


Series: LPAM/LPAF

Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 5mm 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	0.34	0.29	0.18	<0.1	<0.1
	LPAM_E17	LPAM_D18	0.26	0.21	0.13	<0.1	<0.1
	LPAM_E17	LPAM_E15	2.50	1.99	1.21	0.52	0.23
FEXT	LPAM_E17	LPAF_C17	0.45	0.33	0.19	<0.1	<0.1
	LPAM_E17	LPAF_D18	0.25	0.15	<0.1	<0.1	<0.1
	LPAM_E17	LPAF_E15	0.86	0.61	0.30	0.12	<0.1

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

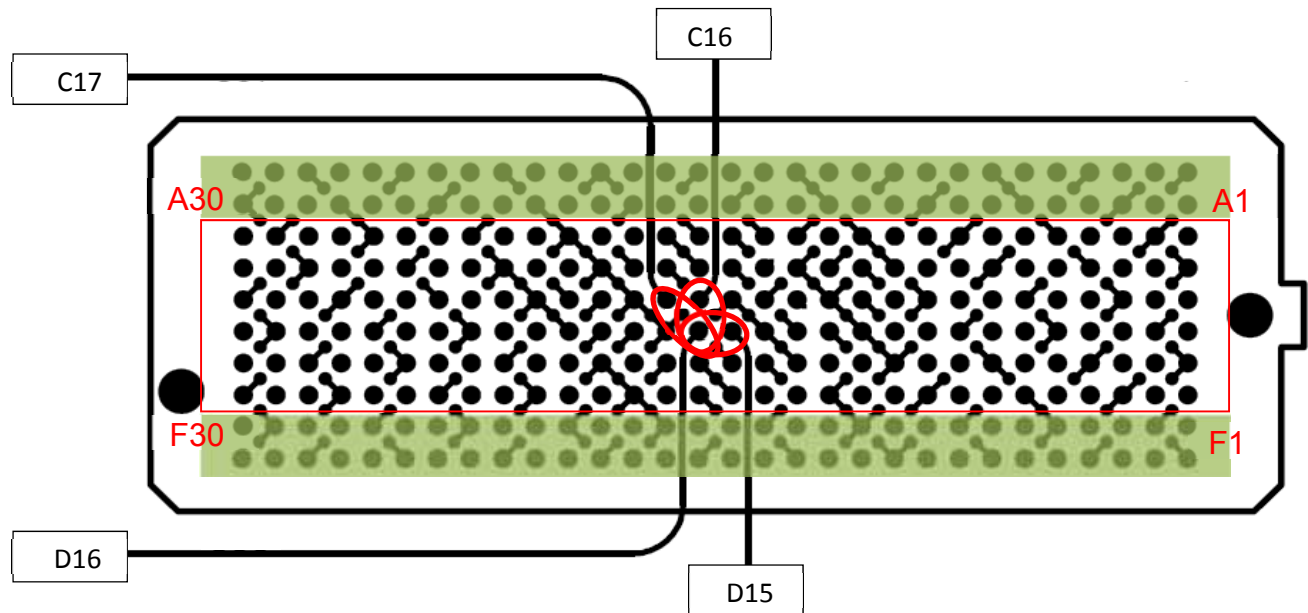


Series: LPAM/LPAF

Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 5mm 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	11.61	9.53	5.90	2.59	1.40
	LPAM_D16	LPAM_C17	9.17	7.39	4.50	1.95	1.08
	LPAM_D16	LPAM_D15	3.69	3.09	2.01	0.90	0.49
FEXT	LPAM_D16	LPAF_C16	4.44	3.36	1.92	0.81	0.48
	LPAM_D16	LPAF_C17	4.51	3.51	2.04	0.87	0.50
	LPAM_D16	LPAF_D15	2.38	1.84	1.08	0.47	0.27

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

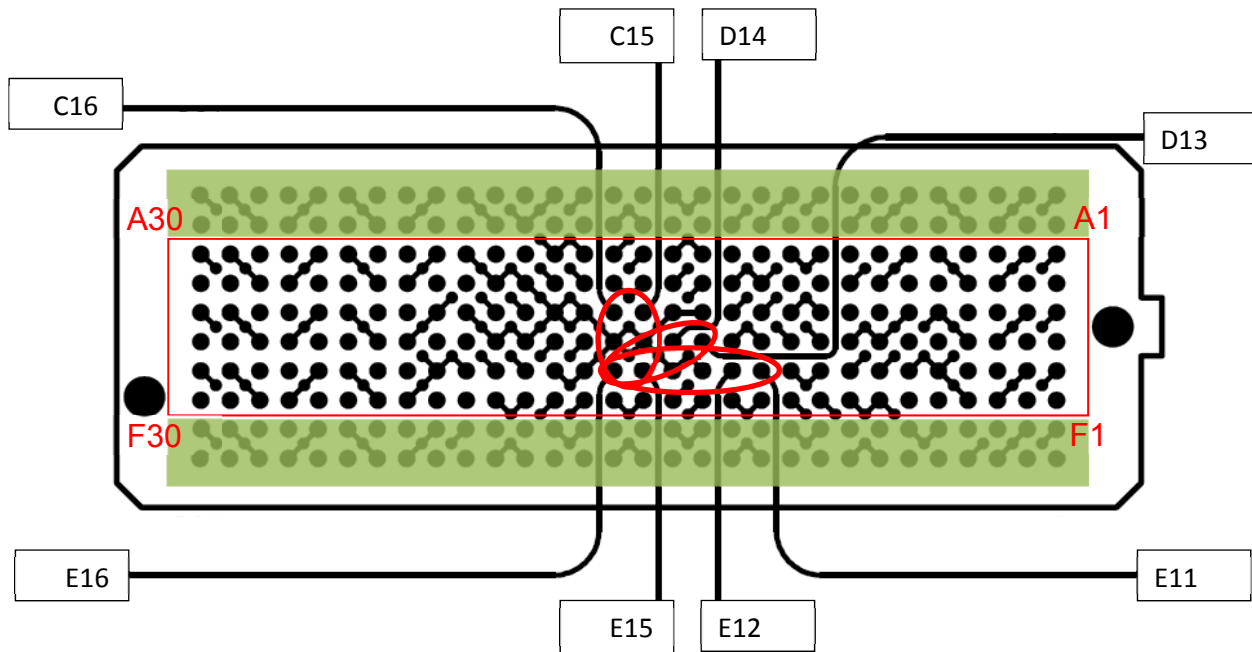


Series: LPAM/LPAF

Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 5mm 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	0.28	0.17	<0.1	<0.1	<0.1
	LPAM_E15,E16	LPAM_D13,D14	0.87	0.71	0.41	0.17	<0.1
	LPAM_E15,E16	LPAM_E11,E12	<0.1	<0.1	<0.1	<0.1	<0.1
FEXT	LPAM_E15,E16	LPAF_C15,C16	0.77	0.56	0.31	0.13	<0.1
	LPAM_E15,E16	LPAF_D13,D14	0.17	0.10	<0.1	<0.1	<0.1
	LPAM_E15,E16	LPAF_E11,E12	0.10	<0.1	<0.1	<0.1	<0.1

Differential Optimal Horizontal Crosstalk Pin Map

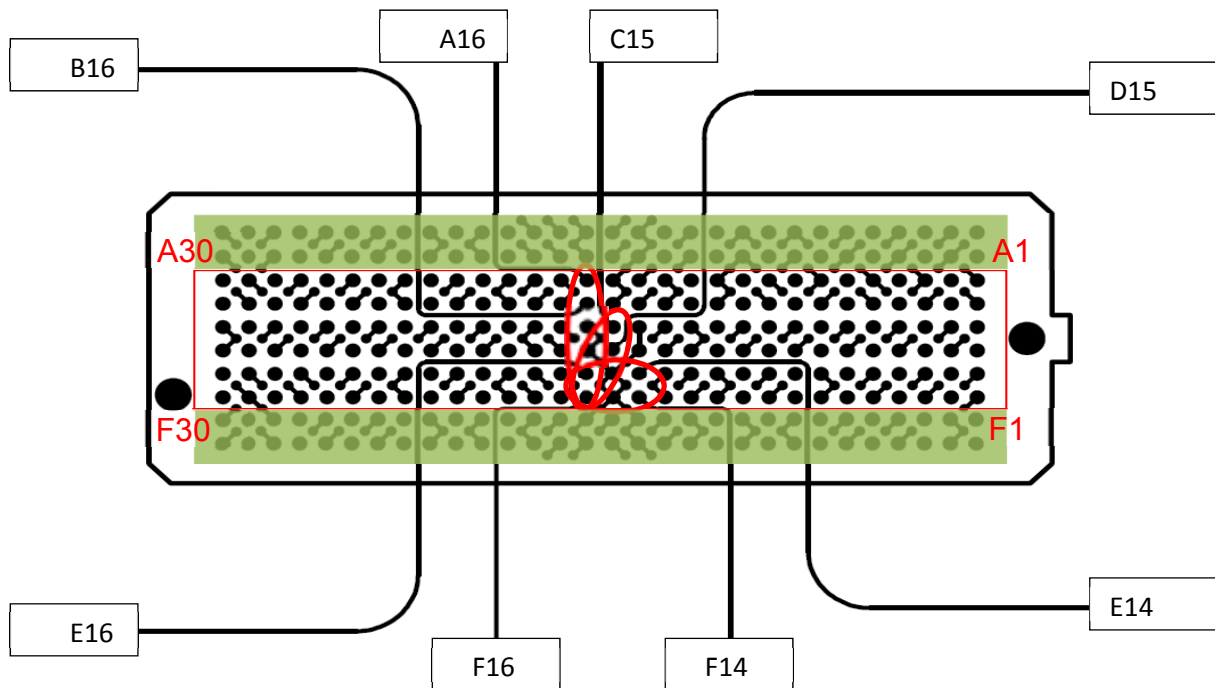


Series: LPAM/LPAF

Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 5mm 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	0.62	0.49	0.29	0.12	<0.1
	LPAM_E16,F16	LPAM_C15,D15	0.96	0.78	0.45	0.19	0.10
	LPAM_E16,F16	LPAM_E14,F14	0.26	0.11	<0.1	<0.1	<0.1
FEXT	LPAM_E16,F16	LPAF_A16,B16	0.38	0.26	0.13	<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	0.43	0.27	0.13	<0.1	<0.1

Differential Optimal Vertical Crosstalk Pin Map

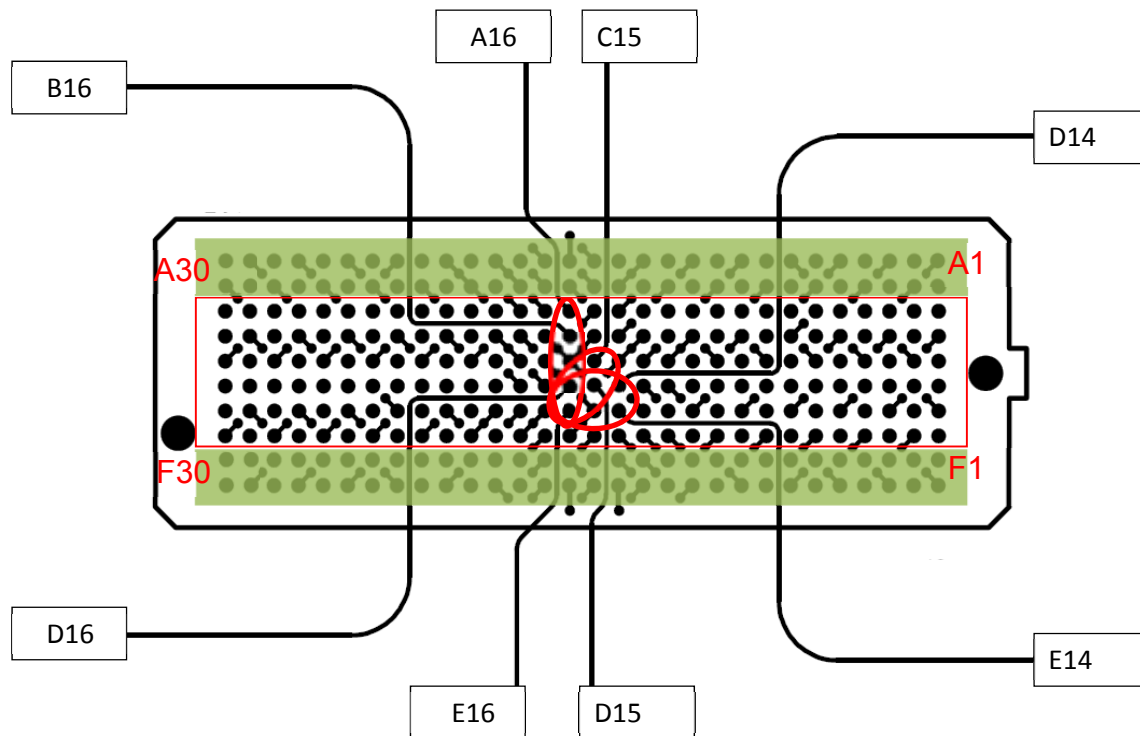


Series: LPAM/LPAF

Description: Low Profile, Open Pin Field Array, 1.27mm x 1.27mm Pitch, 5mm 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	0.51	0.45	0.30	0.14	<0.1
	LPAM_D16,E16	LPAM_C15,D15	2.93	2.45	1.43	0.66	0.35
	LPAM_D16,E16	LPAM_D14,E14	0.13	<0.1	<0.1	<0.1	<0.1
FEXT	LPAM_D16,E16	LPAF_A16,B16	0.55	0.46	0.28	0.12	<0.1
	LPAM_D16,E16	LPAF_C15,D15	0.35	0.22	<0.1	<0.1	<0.1
	LPAM_D16,E16	LPAF_D14,E14	0.25	0.16	<0.1	<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, 5mm Stack Height

Table 16 - Propagation Delay (Mated Connector)	
Single-Ended: 1:1 S/G	35 ps
Single-Ended: 2:1 S/G	32 ps
Differential: Optimal Horizontal	30 ps
Differential: Optimal Vertical	26 ps
Differential: High Density Vertical	32 ps