

Series: SEAF/SEAR/SEAF

Description: High-Speed, High-Density Array, 85 Ohm Differential Impedance,
1.27mm x 1.27mm Pitch, 43mm Stack Height

Time Domain Data Summary

Table 5 – Differential Impedance (Ω) – Pin 226, 236					
Signal Risetime	30ps	50ps	100ps	250ps	500ps
Maximum Impedance	107.49	101.90	97.42	94.53	92.88
Minimum Impedance	79.41	83.29	84.88	84.97	84.99

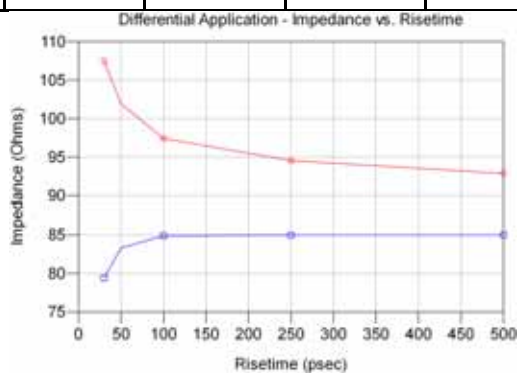
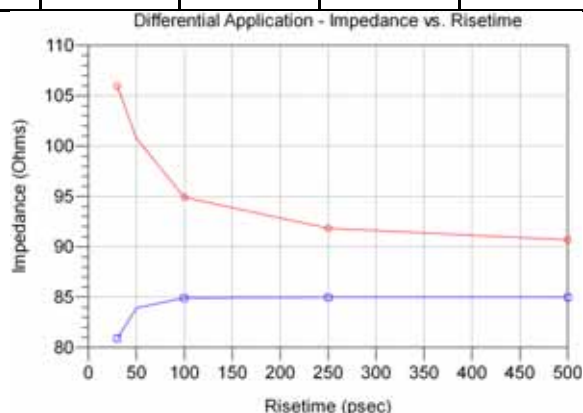


Table 6 – Differential Impedance (Ω) – Pin 227, 237					
Signal Risetime	30ps	50ps	100ps	250ps	500ps
Maximum Impedance	105.96	100.78	94.91	91.84	90.69
Minimum Impedance	80.89	83.92	84.92	84.98	84.99



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Table 7 – Differential Impedance (Ω) – Pin 256, 266

Signal Risetime	30ps	50ps	100ps	250ps	500ps
Maximum Impedance	106.69	102.48	97.17	93.22	91.77
Minimum Impedance	85.00	85.00	85.00	85.00	85.00

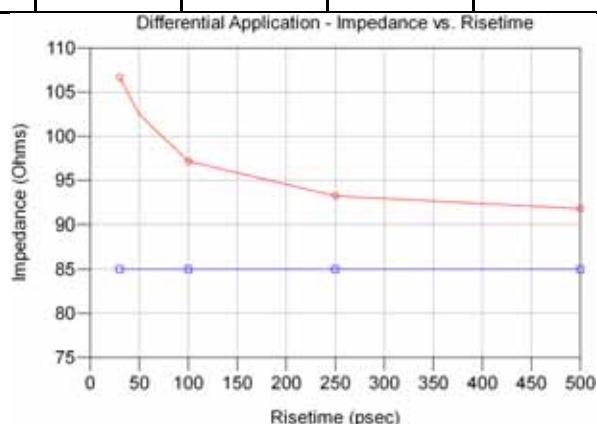
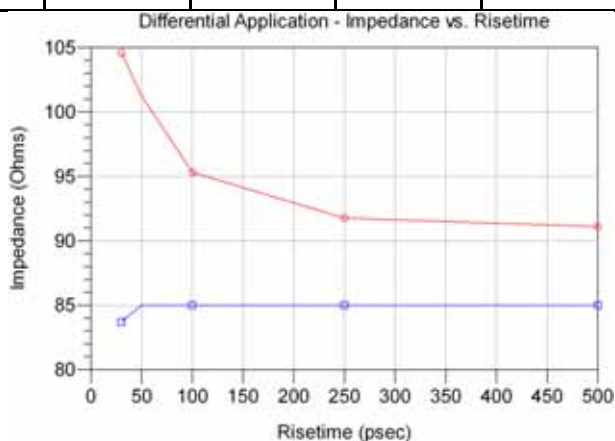


Table 8 – Differential Impedance (Ω) – Pin 258, 268

Signal Risetime	30ps	50ps	100ps	250ps	500ps
Maximum Impedance	104.61	101.23	95.30	91.77	91.10
Minimum Impedance	83.70	85.00	85.00	85.00	85.00

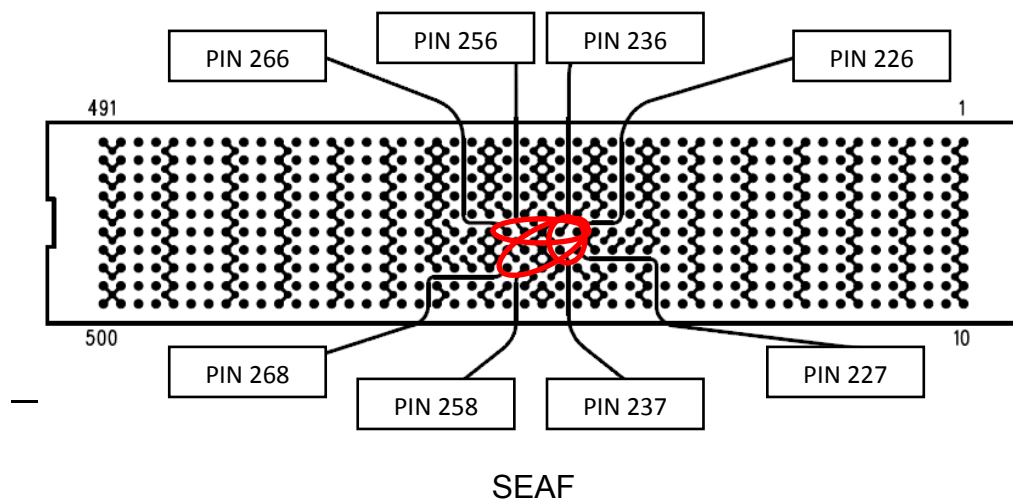


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Table 9 – Differential Crosstalk (%) – Pin 226, 236							
Input(tr)	Driver	Receiver	30ps	50ps	100ps	250ps	500ps
NEXT	SEAF226A,236A	SEAF227A,237A	5.87	5.03	3.43	1.85	1.41
	SEAF226A,236A	SEAF256A,266A	0.64	0.39	0.18	<0.1	<0.1
	SEAF226A,236A	SEAF258A,268A	<0.1	<0.1	<0.1	<0.1	<0.1
FEXT	SEAF226A,236A	SEAF227B,237B	10.97	8.17	4.84	2.12	1.09
	SEAF226A,236A	SEAF256B,266B	0.94	0.63	0.31	0.14	<0.1
	SEAF226A,236A	SEAF258B,268B	<0.1	<0.1	<0.1	<0.1	<0.1

Differential Crosstalk Pin Map: Pin 226, 236 as driver

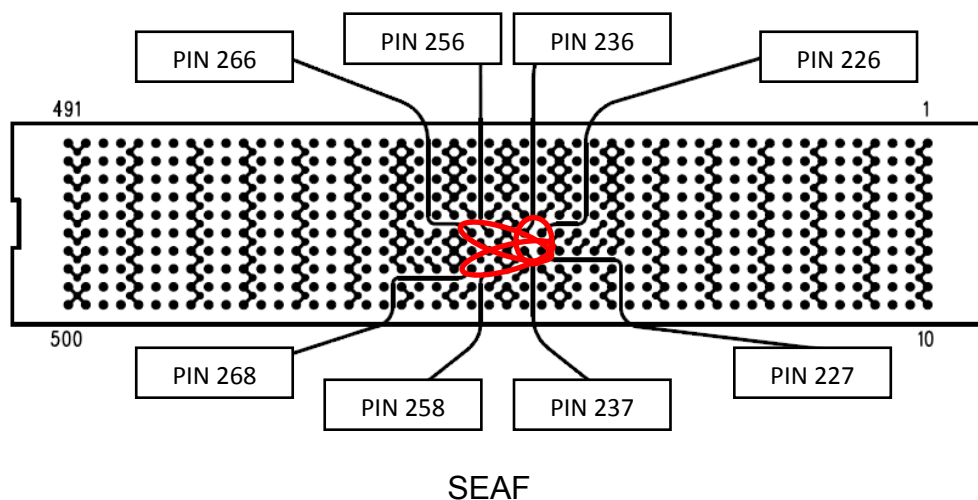


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Table 10 – Differential Crosstalk (%) – Pin 227, 237							
Input(tr)	Driver	Receiver	30ps	50ps	100ps	250ps	500ps
NEXT	SEAF227A,237A	SEAF226A,236A	5.88	5.03	3.45	1.86	1.42
	SEAF227A,237A	SEAF256A,266A	0.17	0.13	<0.1	<0.1	<0.1
	SEAF227A,237A	SEAF258A,268A	0.17	0.12	<0.1	<0.1	<0.1
FEXT	SEAF227A,237A	SEAF226B,236B	10.71	8.10	4.83	2.15	1.11
	SEAF227A,237A	SEAF256B,266B	0.42	0.24	0.11	<0.1	<0.1
	SEAF227A,237A	SEAF258B,268B	0.33	0.23	0.13	<0.1	<0.1

Differential Crosstalk Pin Map: Pin 227, 237 as driver



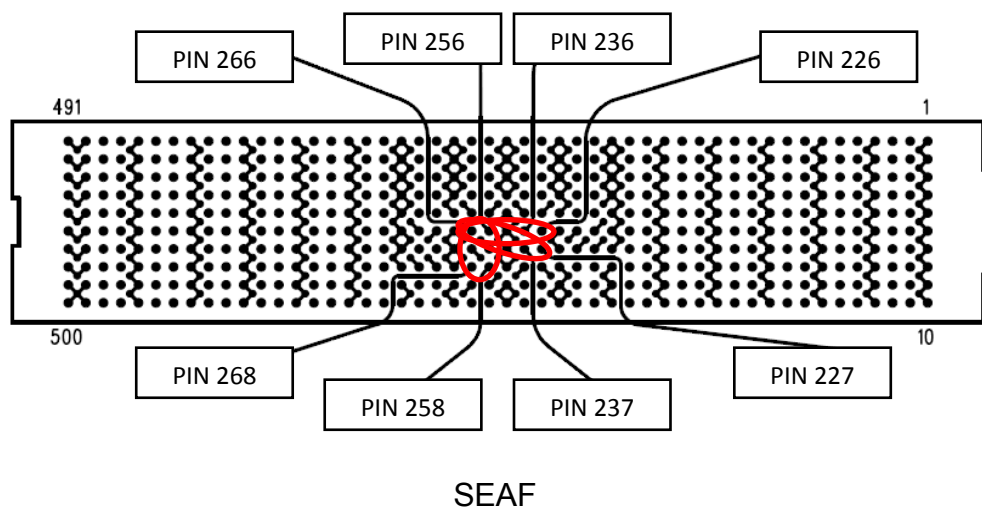
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Table 11 – Differential Crosstalk (%) – Pin 256, 266

Input(tr)	Driver	Receiver	30ps	50ps	100ps	250ps	500ps
NEXT	SEAF256A,266A	SEAF226A,236A	0.63	0.39	0.18	<0.1	<0.1
	SEAF256A,266A	SEAF227A,237A	0.17	0.13	<0.1	<0.1	<0.1
	SEAF256A,266A	SEAF258A,268A	0.52	0.41	0.22	<0.1	<0.1
FEXT	SEAF256A,266A	SEAF226B,236B	0.92	0.62	0.31	0.14	<0.1
	SEAF256A,266A	SEAF227B,237B	0.42	0.24	0.11	<0.1	<0.1
	SEAF256A,266A	SEAF258B,268B	0.59	0.45	0.28	0.13	<0.1

Differential Crosstalk Pin Map: Pin 256, 266 as driver

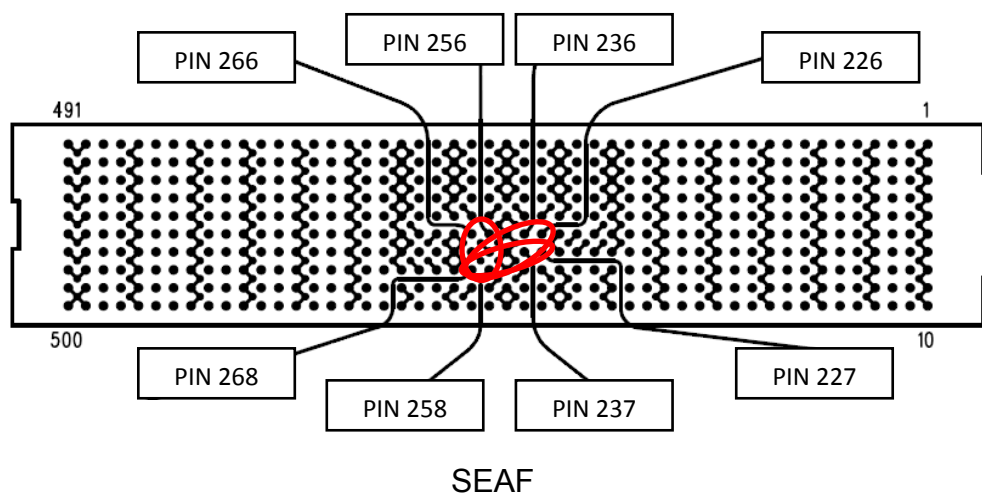


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Table 12 – Differential Crosstalk (%) – Pin 258, 268							
Input(tr)	Driver	Receiver	30ps	50ps	100ps	250ps	500ps
NEXT	SEAF258A,268A	SEAF226A,236A	<0.1	<0.1	<0.1	<0.1	<0.1
	SEAF258A,268A	SEAF227A,237A	0.12	<0.1	<0.1	<0.1	<0.1
	SEAF258A,268A	SEAF256A,266A	0.52	0.40	0.22	<0.1	<0.1
FEXT	SEAF258A,268A	SEAF226B,236B	<0.1	<0.1	<0.1	<0.1	<0.1
	SEAF258A,268A	SEAF227B,237B	0.33	0.23	0.13	<0.1	<0.1
	SEAF258A,268A	SEAF256B,266B	0.16	0.10	<0.1	<0.1	<0.1

Differential Crosstalk Pin Map: Pin 258, 268 as driver



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Table 13 – Propagation Delay (Mated Connector)	
Differential: Pin 226, 236	268 ps
Differential: Pin 227, 237	270 ps
Differential: Pin 256, 266	271 ps
Differential: Pin 258, 268	270 ps