



Fig.	Delay (Ns)	Tolerance (pS)	Impedance (Ω)	Insertion Loss MHz (-3dB)	Return Loss MHz (-15dB)	Digi-Key Part No.	1	10	50	Susumu Part No.
DS1L Series 3 Pin SIP Delay Lines										
1	0.1	±50	50 ±5	2980	2380	408-1108-ND	9.23	6.55	5.69	DS1L5DJ010S-C
	0.5	±50	50 ±5	2580	800	408-1109-ND	9.23	6.55	5.69	DS1L5DJ050S-C
	1.0	±50	50 ±5	1260	185	408-1110-ND	9.23	6.55	5.69	DS1L5DJ100S-C
	1.5	±50	50 ±5	1140	180	408-1111-ND	9.23	6.55	5.69	DS1L5DJ150S-C
	2.0	±50	50 ±5	910	118	408-1112-ND	9.23	6.55	5.69	DS1L5DJ200S-C
	3.0	±125	50 ±5	610	322	408-1113-ND	17.10	12.14	10.55	DS1L5DJ300S-C
	3.5	±125	50 ±5	560	415	408-1114-ND	17.10	12.14	10.55	DS1L5DJ350S-C
	4.0	±125	50 ±5	480	436	408-1115-ND	17.10	12.14	10.55	DS1L5DJ400S-C
	4.5	±125	50 ±5	440	388	408-1116-ND	17.10	12.14	10.55	DS1L5DJ450S-C
	5.0	±125	50 ±5	590	341	408-1117-ND	17.10	12.14	10.55	DS1L5DJ500S-C
	6.0	±250	50 ±5	470	294	408-1118-ND	20.81	14.77	12.84	DS1L5VJ600S-C
	7.0	±250	50 ±5	400	200	408-1119-ND	20.81	14.77	12.84	DS1L5VJ700S-C
	8.0	±250	50 ±5	350	209	408-1120-ND	20.81	14.77	12.84	DS1L5VJ800S-C
	9.0	±250	50 ±5	310	181	408-1121-ND	20.81	14.77	12.84	DS1L5VJ900S-C
	10.0	±250	50 ±5	280	166	408-1122-ND	20.81	14.77	12.84	DS1L5VJA00S-C
0.1	±25	50 ±5	3500	2200	408-1123-ND	10.13	7.18	6.25	DS1L5DJ010K-C	
0.5	±25	50 ±5	2700	2000	408-1124-ND	10.13	7.18	6.25	DS1L5DJ050K-C	
1.0	±50	50 ±5	2100	2000	408-1125-ND	10.13	7.18	6.25	DS1L5DJ100K-C	
1.3	±50	50 ±5	2300	1500	408-1126-ND	10.13	7.18	6.25	DS1L5DJ130K-C	

Fig.	Delay (Ns)	Tolerance (pS)	Impedance (Ω)	Insertion Loss GHz (-3dB)	Return Loss GHz (-15dB)	Digi-Key Part No.	1	10	50	Susumu Part No.
GL1L Series 16 Pin SOIC Delay Lines										
2	0.1	±50	50 ±5	8.41	3.67	408-1127-ND	19.35	13.73	11.94	GL1L5L010S-C
	0.5	±50	50 ±5	3.86	1.80	408-1128-ND	19.35	13.73	11.94	GL1L5L050S-C
	1.0	±50	50 ±5	2.92	1.43	408-1129-ND	19.35	13.73	11.94	GL1L5L100S-C
	1.5	±50	50 ±5	1.99	1.87	408-1130-ND	19.35	13.73	11.94	GL1L5MS150S-C
	2.0	±50	50 ±5	1.78	1.48	408-1131-ND	19.35	13.73	11.94	GL1L5MS200S-C
	2.5	±50	50 ±5	1.51	1.58	408-1132-ND	19.35	13.73	11.94	GL1L5MS250S-C
	3.0	±50	50 ±5	1.15	1.64	408-1133-ND	19.35	13.73	11.94	GL1L5MS300S-C
	3.5	±50	50 ±5	1.11	1.25	408-1134-ND	19.35	13.73	11.94	GL1L5MS350S-C
	4.0	±50	50 ±5	0.93	1.35	408-1135-ND	19.35	13.73	11.94	GL1L5MS400S-C
	4.5	±50	50 ±5	0.69	1.34	408-1136-ND	19.35	13.73	11.94	GL1L5MS450S-C
	5.0	±50	50 ±5	0.60	1.59	408-1137-ND	19.35	13.73	11.94	GL1L5MS500S-C

Fig.	Delay (Ps)	Tolerance (pS)	Individual Impedance (Ω)	20 - 80% Risettime (ps)	Digi-Key Part No.	1	10	50	Susumu Part No.
GL2L Series 16 Pin SOIC Delay Lines									
2	0.1	±50	50 ±5	<144	408-1138-ND	35.33	25.07	21.79	GL2L5L010D-C
	0.5	±50	50 ±5	<200	408-1139-ND	35.33	25.07	21.79	GL2L5L050D-C
	1.0	±50	50 ±5	<270	408-1140-ND	35.33	25.07	21.79	GL2L5L100D-C
	1.5	±50	50 ±5	<340	408-1141-ND	35.33	25.07	21.79	GL2L5MS150D-C
	2.0	±50	50 ±5	<410	408-1142-ND	35.33	25.07	21.79	GL2L5MS200D-C
	2.5	±50	50 ±5	<480	408-1143-ND	35.33	25.07	21.79	GL2L5MS250D-C
	3.0	-0.5	50 ±5	<550	408-1144-ND	35.33	25.07	21.79	GL2L5MS300D-C
	3.5	±100	50 ±5	<620	408-1145-ND	35.33	25.07	21.79	GL2L5MS350D-C
	4.0	±100	50 ±5	<690	408-1146-ND	35.33	25.07	21.79	GL2L5MS400D-C
	4.5	±100	50 ±5	<760	408-1147-ND	35.33	25.07	21.79	GL2L5MS450D-C

Fig.	Delay (Ns)	Tolerance (pS)	Impedance (Ω)	Insertion Loss GHz (-3dB)	Return Loss GHz (-15dB)	Digi-Key Part No.	1	10	50	Digi-Key Part No.	Tape and Reel Pricing 100	Susumu Part No.
CL1L Series 1210 Chip Delay Lines												
3	40	±10	50 ±5	11	4.6	408-1148-1-ND	8.21	5.83	5.07	408-1148-2-ND	441.00	CL1L5AT004L-T1
	60	±10	50 ±5	12.4	4.3	408-1149-1-ND	8.21	5.83	5.07	408-1149-2-ND	441.00	CL1L5AT006L-T1
	80	±10	50 ±5	11	7.4	408-1150-1-ND	8.21	5.83	5.07	408-1150-2-ND	441.00	CL1L5AT008L-T1
	100	±10	50 ±5	9.4	4.3	408-1151-1-ND	8.21	5.83	5.07	408-1151-2-ND	441.00	CL1L5AT010L-T1
	120	±10	50 ±5	8.4	6.3	408-1152-1-ND	8.21	5.83	5.07	408-1152-2-ND	441.00	CL1L5AT012L-T1
	140	±10	50 ±5	7.4	6.1	408-1153-1-ND	8.21	5.83	5.07	408-1153-2-ND	441.00	CL1L5AT014L-T1
	160	±10	50 ±5	6.6	5.9	408-1154-1-ND	8.21	5.83	5.07	408-1154-2-ND	441.00	CL1L5AT016L-T1
	180	±10	50 ±5	5.9	4.5	408-1155-1-ND	8.21	5.83	5.07	408-1155-2-ND	441.00	CL1L5AT018L-T1
	200	±10	50 ±5	5.5	5.4	408-1156-1-ND	8.21	5.83	5.07	408-1156-2-ND	441.00	CL1L5AT020L-T1
	220	±10	50 ±5	4.9	4.9	408-1157-1-ND	8.21	5.83	5.07	408-1157-2-ND	441.00	CL1L5AT022L-T1

Fig.	Delay (Ns)	Tolerance (pS)	Differential Impedance (Ω)	20 - 80% Risettime (ps)	Digi-Key Part No.	1	10	50	Digi-Key Part No.	Tape and Reel Pricing 100	Susumu Part No.
CL2L Series 1210 Chip Delay Lines											
3	40	±10	100 ±10	<20	408-1158-1-ND	14.63	10.38	9.03	408-1158-2-ND	785.00	CL2LAAT004D-C-T1
	60	±10	100 ±10	<24	408-1159-1-ND	14.63	10.38	9.03	408-1159-2-ND	785.00	CL2LAAT006D-C-T1
	80	±10	100 ±10	<24	408-1160-1-ND	14.63	10.38	9.03	408-1160-2-ND	785.00	CL2LAAT008D-C-T1
	100	±10	100 ±10	<27	408-1161-1-ND	14.63	10.38	9.03	408-1161-2-ND	785.00	CL2LAAT010D-C-T1
	120	±10	100 ±10	<31	408-1162-1-ND	14.63	10.38	9.03	408-1162-2-ND	785.00	CL2LAAT012D-C-T1
	140	±10	100 ±10	<37	408-1163-1-ND	14.63	10.38	9.03	408-1163-2-ND	785.00	CL2LAAT014D-C-T1
	160	±10	100 ±10	<37	408-1164-1-ND	14.63	10.38	9.03	408-1164-2-ND	785.00	CL2LAAT016D-C-T1
	180	±10	100 ±10	<39	408-1165-1-ND	14.63	10.38	9.03	408-1165-2-ND	785.00	CL2LAAT018D-C-T1
	200	±10	100 ±10	<45	408-1166-1-ND	14.63	10.38	9.03	408-1166-2-ND	785.00	CL2LAAT020D-C-T1

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