



| 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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