8 Pin Single-in-Line Passive Delay Lines

Delay nS Max.	Delay Tol. nS	Rise Time nS Max. (Calculated)	DCR Ω Max.	PCA Part Number	Delay nS Max.	Delay Tol. nS	Rise Time nS Max. (Calculated)	DCR Ω Max.	PCA Part Number
0.0	+0.25	1.0	1.0	EP9793-0.0 *(Z)	9.0	±0.25	1.9	1.0	EP9793-9.0 *(Z)
0.5	±0.25	1.0	1.0	EP9793-0.5 *(Z)	9.5	±0.25	2.0	1.0	EP9793-9.5 *(Z)
1.0	±0.25	1.0	1.0	EP9793-1.0 *(Z)	10.0	±0.25	2.0	1.0	EP9793-10 *(Z)
1.5	±0.25	1.0	1.0	EP9793-1.5 *(Z)	11.0	±0.25	2.2	2.0	EP9793-11 *(Z)
2.0	±0.25	1.0	1.0	EP9793-2.0 *(Z)	12.0	±0.25	2.3	2.0	EP9793-12 *(Z)
2.5	±0.25	1.0	1.0	EP9793-2.5 *(Z)	13.0	±0.25	2.5	2.0	EP9793-13 *(Z)
3.0	±0.25	1.0	1.0	EP9793-3.0 *(Z)	14.0	±0.25	2.6	2.0	EP9793-14 *(Z)
3.5	±0.25	1.0	1.0	EP9793-3.5 *(Z)	15.0	±0.25	2.8	2.0	EP9793-15 *(Z)
4.0	±0.25	1.0	1.0	EP9793-4.0 *(Z)	16.0	±0.25	3.0	2.5	EP9793-16 *(Z)
4.5	±0.25	1.0	1.0	EP9793-4.5 *(Z)	17.0	±0.25	3.2	2.5	EP9793-17 *(Z)
5.0	±0.25	1.1	1.0	EP9793-5.0 *(Z)	18.0	±0.25	3.4	2.5	EP9793-18 *(Z)
5.5	±0.25	1.2	1.0	EP9793-5.5 *(Z)	19.0	±0.25	3.6	2.5	EP9793-19 *(Z)
6.0	±0.25	1.3	1.0	EP9793-6.0 *(Z)	20.0	±0.50	3.8	2.5	EP9793-20 *(Z)
6.5	±0.25	1.4	1.0	EP9793-6.5 *(Z)	25.0	±0.50	4.5	4.0	EP9793-25 *(Z)
7.0	±0.25	1.5	1.0	EP9793-7.0 *(Z)	30.0	±0.50	5.5	4.5	EP9793-30 *(Z)
7.5	±0.25	1.6	1.0	EP9793-7.5 *(Z)	35.0	±0.50	6.4	5.5	EP9793-35 *(Z)
8.0	±0.25	1.7	1.0	EP9793-8.0 *(Z)	40.0	±0.50	7.4	6.0	EP9793-40 *(Z)
8.5	±0.25	1.8	1.0	EP9793-8.5 *(Z)	45.0	±1.0	8.0	6.5	EP9793-45 *(Z)

Note : *(Z) indicates Zo Ω ± 10% ; *(A) = 50 Ω *(B) = 100 Ω *(C) = 200 Ω *(F) = 75 Ω *(H) = 55 Ω *(K) = 62 Ω *(L) = 250 Ω

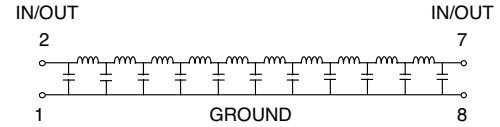
DC Electrical Characteristics	Min	Max	Unit
Distortion		±10	%
Temperature Coefficient of Delay		100	PPM/°C
Insulation Resistance @ 100 Vdc	1K		Meg Ohms
Dielectric Strength		100	Vdc

Recommended Operating Conditions		Min	Max	Unit
P_W*	Pulse Width % of Total Delay	200		%
D*	Duty Cycle		40	%
T_A	Operating Free Air Temperature	-40	+85	°C

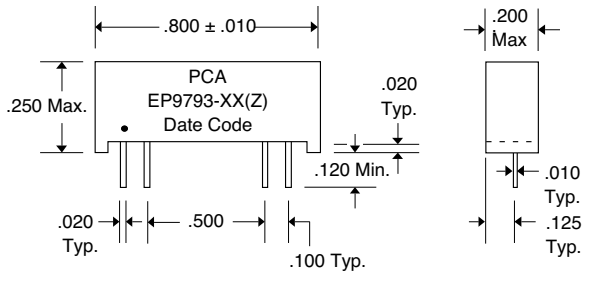
These two values are inter-dependent.

Input Pulse Test Conditions @ 25°C		
V_{IN}	Pulse Input Voltage	5 Volts
P_W	Pulse Width % of Total Delay	300 %
T_{RI}	Input Rise Time (10 - 90%)	2.0 nS
P_{RR}	Pulse Repetition Rate @ Td ≤ 150 nS	1.0 MHz
	Pulse Repetition Rate @ Td > 150 nS	300 KHz

Schematic



Package Dimensions



DSD9793-XX(Z) Rev. 21 5/12/00

QAF-CSO1 Rev. B 8/25/94

Unless Otherwise Noted Dimensions in Inches
Tolerances:
Fractional = ± 1/32
.XX = ± .030 .XXX = ± .010

PCA ELECTRONICS INC.

16799 SCHOENBORN ST.
NORTH HILLS, CA 91343
TEL: (818) 892-0761
FAX: (818) 894-5791