Mini SIP Passive Delay Lines

TIME DELAY nS (Bi-diectional)	RISE TIME 20-80% nS Max	DCR Ohms Max	IMPEDANCE ±10%			
			55Ω	93 Ω	55 Ω	93Ω
1 ± 0.2	1.6	0.20	EP9910-1H	EP9910-1 I	EP9910N-1H	EP9910N-1 I
2 ± 0.2	1.6	0.25	EP9910-2H	EP9910-2 I	EP9910N-2H	EP9910N-2 I
3 ± 0.2	1.7	0.35	EP9910-3H	EP9910-3 I	EP9910N-3H	EP9910N-3 I
4 ± 0.2	1.7	0.45	EP9910-4H	EP9910-4 I	EP9910N-4H	EP9910N-4 I
5 ± 0.25	1.8	0.55	EP9910-5H	EP9910-5 I	EP9910N-5H	EP9910N-5 I
6 ± 0.3	2.0	0.70	EP9910-6H	EP9910-6 I	EP9910N-6H	EP9910N-6 I
7 ± 0.3	2.2	0.80	EP9910-7H	EP9910-7 I	EP9910N-7H	EP9910N-7 I
8 ± 0.3	2.4	0.85	EP9910-8H	EP9910-8 I	EP9910N-8H	EP9910N-8 I
9 ± 0.3	2.6	0.90	EP9910-9H	EP9910-9 I	EP9910N-9H	EP9910N-9 I
10 ± 0.3	2.8	0.95	EP9910-10H	EP9910-10 I	EP9910N-10H	EP9910N-10 I

For EP9910 (0°C to 70°C Operation)

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	0	70	°C

These two values are inter-dependent.

Input Pulse Test Conditions @ 25°C		
V_{IN}	Pulse Input Voltage	3 Volts
P_W	Pulse Width % of Total Delay	300 %
T_{RI}	Input Rise Time (10 - 90%)	2.0 nS
P_{RR}	Pulse Repetition Rate	1.0 MHz

For EP9910N (-40°C to 85°C Operation)

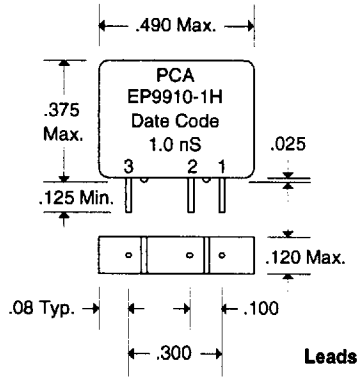
DC Electrical Characteristics	Min	Max	Unit
Distortion		±10	%
Temperature Coefficient of Delay		100	PPM/°C
Insulation Resistance @ 100 Vdc	1K		Meg Ohms
Dielectric Strength		100	Vdc

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

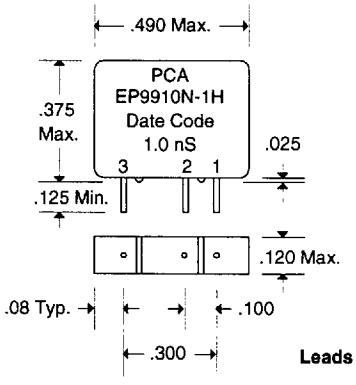
These two values are inter-dependent.

Input Pulse Test Conditions @ 25°C		
V_{IN}	Pulse Input Voltage	3 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

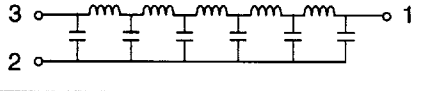
Package Dimensions



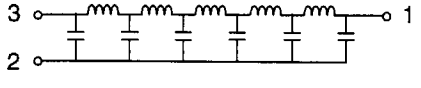
Package Dimensions



Schematic



Schematic



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