

Mini SIP Passive Delay Lines

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

For EP9910 (0°C to 70°C Operation)

For EP9910N (-40°C to 85°C Operation)

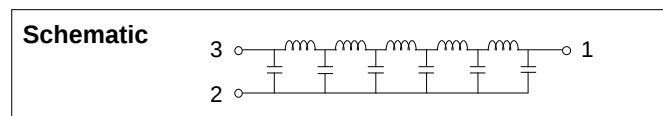
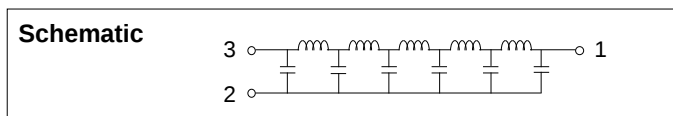
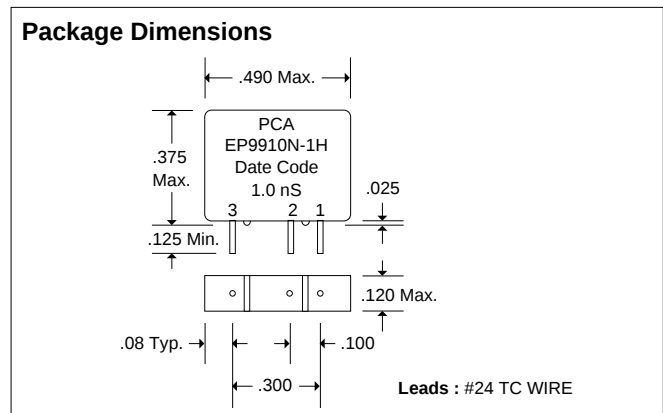
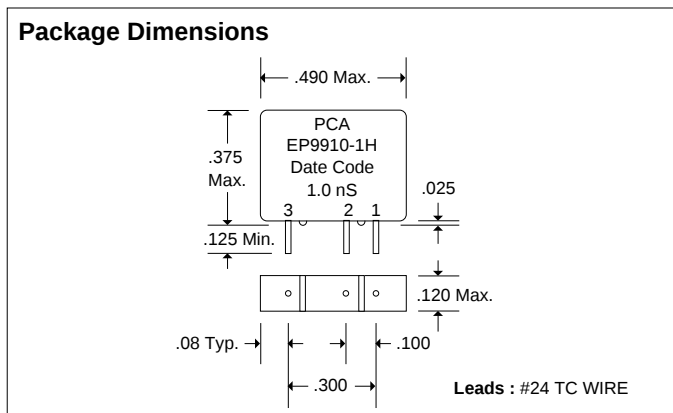
DC Electrical Characteristics	Min	Max	Unit	DC Electrical Characteristics	Min	Max	Unit
Distortion		± 10	%	Distortion		± 10	%
Temperature Coefficient of Delay		100	PPM/°C	Temperature Coefficient of Delay		100	PPM/°C
Insulation Resistance @ 100 Vdc	1K		Meg Ohms	Insulation Resistance @ 100 Vdc	1K		Meg Ohms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

Recommended Operating Conditions					Recommended Operating Conditions				
		Min	Max	Unit		Min	Max	Unit	
PW*	Pulse Width % of Total Delay	200		%	PW*	Pulse Width % of Total Delay	200		%
D*	Duty Cycle		40	%	D*	Duty Cycle		40	%
TA	Operating Free Air Temperature	0	70	°C	TA	Operating Free Air Temperature	-40	85	°C

*These two values are inter-dependent.

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Input Pulse Test Conditions @ 25°C				Input Pulse Test Conditions @ 25°C			
VIN	Pulse Input Voltage		3Volts	VIN	Pulse Input Voltage		3 Volts
PW	Pulse Width % of Total Delay		300 %	PW	Pulse Width % of Total Delay		300 %
TRI	Input Rise Time (10 - 90%)		2.0 nS	TRI	Input Rise Time (10 - 90%)		2.0 nS
PRR	Pulse Repetition Rate		1.0 MHz	PRR	Pulse Repetition Rate @ Td $\leq$ 150 nS		1.0 MHz



DSD9910 Rev. A 2/5/96

QAF-CS01 Rev. B 8/25/94

Unless Otherwise Noted Dimensions in Inches

Tolerances:
Fractional = $\pm 1/32$
.XX = $\pm .030$.XXX = $\pm .010$



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