PCA ELECTRONICS INC.

Mini SIP Passive Delay Lines

EP9910-XX & EP9910-XX-RC

- Operating Temperature : 0°C to 70°C
- Add "-RC" after part number for RoHS Compliant

Time Delay (nS) Bi-directional	**Rise Time** (nS Max.)	**DCR** (Ω Max.)	**Impedance** (±10%)					
	20%-80%		50Ω	55Ω	75Ω	93Ω	100 Ω	200Ω
1 ± 0.2	1.6	0.20	EP9910-1A	EP9910-1H	EP9910-1F	EP9910-1 I	EP9910-1B	EP9910-1C
2 ± 0.2	1.6	0.25	EP9910-2A	EP9910-2H	EP9910-2F	EP9910-2 I	EP9910-2B	EP9910-2C
3 ± 0.2	1.7	0.35	EP9910-3A	EP9910-3H	EP9910-3F	EP9910-3 I	EP9910-3B	EP9910-3C
4 ± 0.2	1.7	0.45	EP9910-4A	EP9910-4H	EP9910-4F	EP9910-4 I	EP9910-4B	EP9910-4C
5 ± 0.25	1.8	0.55	EP9910-5A	EP9910-5H	EP9910-5F	EP9910-5 I	EP9910-5B	EP9910-5C
6 ± 0.3	2.0	0.70	EP9910-6A	EP9910-6H	EP9910-6F	EP9910-6 I	EP9910-6B	EP9910-6C
7 ± 0.3	2.2	0.80	EP9910-7A	EP9910-7H	EP9910-7F	EP9910-7 I	EP9910-7B	EP9910-7C
8 ± 0.3	2.4	0.85	EP9910-8A	EP9910-8H	EP9910-8F	EP9910-8 I	EP9910-8B	EP9910-8C
9 ± 0.3	2.6	0.90	EP9910-9A	EP9910-9H	EP9910-9F	EP9910-9 I	EP9910-9B	EP9910-9C
10 ± 0.3	2.8	0.95	EP9910-10A	EP9910-10H	EP9910-10F	EP9910-10 I	EP9910-10B	EP9910-10C
11 ± 0.35	3.0	1.00	EP9910-11A	EP9910-11H	EP9910-11F	EP9910-11 I	EP9910-11B	EP9910-11C
12 ± 0.35	3.2	1.05	EP9910-12A	EP9910-12H	EP9910-12F	EP9910-12 I	EP9910-12B	EP9910-12C
13 ± 0.35	3.6	1.10	EP9910-13A	EP9910-13H	EP9910-13F	EP9910-13 I	EP9910-13B	EP9910-13C
14 ± 0.35	3.8	1.15	EP9910-14A	EP9910-14H	EP9910-14F	EP9910-14 I	EP9910-14B	EP9910-14C
15 ± 0.35	4.0	1.20	EP9910-15A	EP9910-15H	EP9910-15F	EP9910-15 I	EP9910-15B	EP9910-15C
16 ± 0.4	4.2	1.25	EP9910-16A	EP9910-16H	EP9910-16F	EP9910-16 I	EP9910-16B	EP9910-16C
17 ± 0.4	4.4	1.30	EP9910-17A	EP9910-17H	EP9910-17F	EP9910-17 I	EP9910-17B	EP9910-17C
18 ± 0.4	4.6	1.35	EP9910-18A	EP9910-18H	EP9910-18F	EP9910-18 I	EP9910-18B	EP9910-18C
19 ± 0.4	4.8	1.40	EP9910-19A	EP9910-19H	EP9910-19F	EP9910-19 I	EP9910-19B	EP9910-19C
20 ± 0.4	5.0	1.45	EP9910-20A	EP9910-20H	EP9910-20F	EP9910-20 I	EP9910-20B	EP9910-20C

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

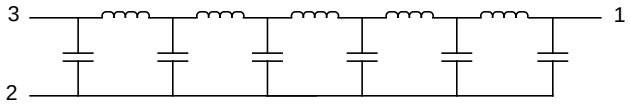
Recommended Operating Conditions		**Min**	**Max**	**Unit**
P_W*	Pulse Width % of Total Delay	200		%
D*	Duty Cycle		40	%
T_A	Operating Free Air Temperature	0	70	°C

**These two values are inter-dependent.*

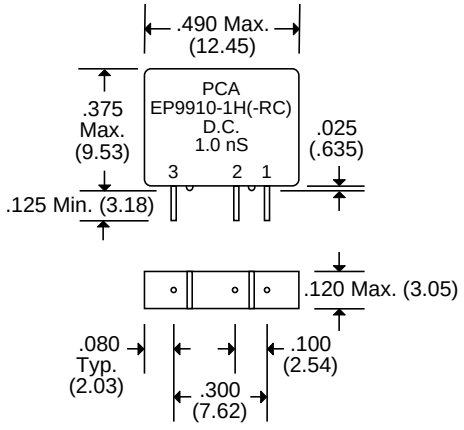
Input Pulse Test Conditions @ 25°C		
V_{IN}	Pulse Input Voltage	3 Volts
P_W	Pulse Width % of Total Delay	300 %
T_{RI}	Input Rise Time (10 - 90%)	2.0 nS
P_{RR}	Pulse Repetition Rate	1.0 MHz

Notes :	**EP9910-XX**	**EP9910-XX-RC**
1. Lead Finish	SnPb	Hot Tin Dip (Sn)
2. Peak Solder Rating (Wave Solder Process Only)	260°C	260°C
3. Weight	0.6 grams	0.6 grams
4. Packaging Information (Tube)	40 pieces/tube	40 pieces/tube

Schematic



Package



Leads : #24 TC WIRE

Unless Otherwise Specified Dimensions are in Inches /mm ± .010 /.25

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Product performance is limited to specified parameters. Data is subject to change without prior notice.

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