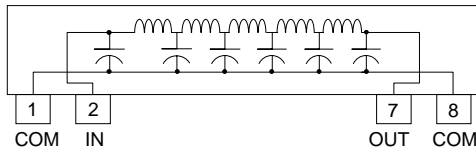


# SIP8 Series High Performance Passive Delays

- Fast Rise Time, Low DCR
- High Bandwidth  $\approx 0.35/t_r$
- Low Distortion LC Network
- Single Precise Delay Output
- Standard Impedances: 50 - 75 - 100 - 200  $\Omega$
- Stable Delay vs. Temperature: 100 ppm/ $^{\circ}C$
- Operating Temperature Range  $-55^{\circ}C$  to  $+125^{\circ}C$

SIP8 Style Schematic



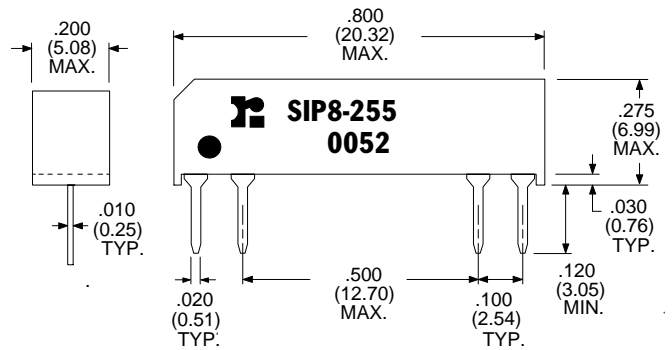
## Operating Specifications - Passive Delay Lines

Pulse Overshoot (Pos) .....	5% to 10%, typical
Pulse Distortion (S) .....	3% typical
Working Voltage .....	25 VDC maximum
Dielectric Strength .....	100VDC minimum
Insulation Resistance .....	1,000 M $\Omega$ min. @ 100VDC
Temperature Coefficient .....	100 ppm/ $^{\circ}C$ , typical
Bandwidth ( $f_c$ ) .....	$0.35/t_r$ approx.
Operating Temperature Range .....	$-55^{\circ}$ to $+125^{\circ}C$
Storage Temperature Range .....	$-65^{\circ}$ to $+150^{\circ}C$

Electrical Specifications @ 25 $^{\circ}C$  (1, 2, 3)

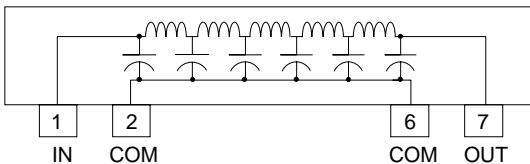
Delay (ns)	Rise Time max. (ns)	DCR max. (Ohms)	50 Ohm Impedance Part Number	75 Ohm Impedance Part Number	93 Ohm Impedance Part Number	100 Ohm Impedance Part Number
1.0 $\pm$ .20	0.8	0.8	SIP8-15	SIP8-17	SIP8-19	SIP8-11
1.5 $\pm$ .30	0.9	1.1	SIP8-1.55	SIP8-1.57	SIP8-1.59	SIP8-1.51
2.0 $\pm$ .30	1.1	1.2	SIP8-25	SIP8-27	SIP8-29	SIP8-21
2.5 $\pm$ .30	1.1	1.3	SIP8-2.55	SIP8-2.57	SIP8-2.59	SIP8-2.51
3.0 $\pm$ .30	1.3	1.4	SIP8-35	SIP8-37	SIP8-39	SIP8-31
4.0 $\pm$ .30	1.6	1.5	SIP8-45	SIP8-47	SIP8-49	SIP8-41
5.0 $\pm$ .30	1.8	1.5	SIP8-55	SIP8-57	SIP8-59	SIP8-51
10 $\pm$ .50	2.5	1.7	SIP8-105	SIP8-107	SIP8-109	SIP8-101
15 $\pm$ .70	3.7	2.1	SIP8-155	SIP8-157	SIP8-159	SIP8-151
20 $\pm$ 1.0	4.6	2.4	SIP8-205	SIP8-207	SIP8-209	SIP8-201
25 $\pm$ 1.2	5.4	3.1	SIP8-255	SIP8-257	SIP8-259	SIP8-251
30 $\pm$ 0.5	6.5	4.5	SIP8-305	SIP8-307	SIP8-309	SIP8-301
50 $\pm$ 2.0	10.0	4.5	SIP8-505	SIP8-507	SIP8-509	SIP8-501
100 $\pm$ 5.0	20.0	6.2	SIP8-1005	SIP8-1007	SIP8-1009	SIP8-1001
200 $\pm$ 10	44.0	7.6	SIP8-2005	SIP8-2007	SIP8-2009	SIP8-2001

Dimensions inches (mm)

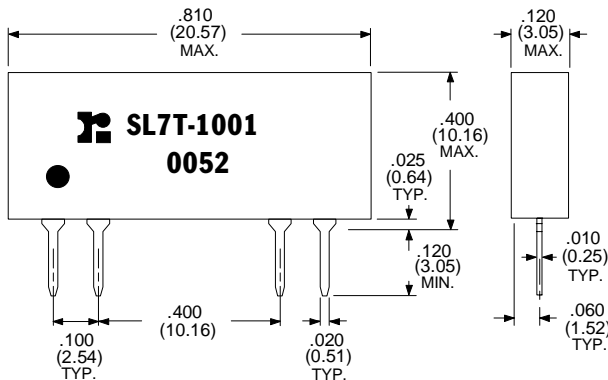


# SL7T Series Thin SIP Passive Single Output High Performance Delays

SL7T Schematic Diagram



Dimensions inches (mm)



Electrical Specifications at 25 $^{\circ}C$  1, 2, 3

Delay (ns)	Rise Time 10%-90% max. (ns)	DCR max. (Ohms)	50 Ohm Impedance Part Number	75 Ohm Impedance Part Number	100 Ohm Impedance Part Number
1.0 $\pm$ .20	0.8	0.8	SL7T-15	SL7T-17	SL7T-11
1.5 $\pm$ .25	0.9	1.1	SL7T-1P55	SL7T-1P57	SL7T-1P51
2.0 $\pm$ .30	1.1	1.2	SL7T-25	SL7T-27	SL7T-21
2.5 $\pm$ .30	1.1	1.3	SL7T-2P55	SL7T-2P57	SL7T-2P51
3.0 $\pm$ .30	1.3	1.4	SL7T-35	SL7T-37	SL7T-31
3.5 $\pm$ .50	1.5	1.5	SL7T-3P55	SL7T-3P57	SL7T-3P51
4.0 $\pm$ .50	1.6	1.5	SL7T-45	SL7T-47	SL7T-41
5.0 $\pm$ .50	1.8	1.5	SL7T-55	SL7T-57	SL7T-51
6.0 $\pm$ .60	1.9	1.5	SL7T-65	SL7T-67	SL7T-61
7.0 $\pm$ .70	2.1	1.5	SL7T-75	SL7T-77	SL7T-71
7.5 $\pm$ .75	2.2	1.6	SL7T-7P55	SL7T-7P57	SL7T-7P51
8.0 $\pm$ .75	2.2	1.6	SL7T-85	SL7T-87	SL7T-81
10.0 $\pm$ .75	2.5	1.7	SL7T-105	SL7T-107	SL7T-101
12.5 $\pm$ .75	2.5	1.9	SL7T-12P55	SL7T-12P57	SL7T-12P51
15.0 $\pm$ .75	2.7	2.1	SL7T-155	SL7T-157	SL7T-151
20.0 $\pm$ 1.0	4.6	2.4	SL7T-205	SL7T-207	SL7T-201
25.0 $\pm$ 1.25	5.4	2.9	SL7T-255	SL7T-257	SL7T-251
30.0 $\pm$ 1.5	6.5	3.0	SL7T-305	SL7T-307	SL7T-301
40.0 $\pm$ 2.0	8.5	3.3	SL7T-405	SL7T-407	SL7T-401
50.0 $\pm$ 2.5	10.0	3.5	SL7T-505	SL7T-507	SL7T-501
75.0 $\pm$ 3.75	15.0	4.8	SL7T-755	SL7T-757	SL7T-751
100 $\pm$ 5.0	20.0	5.6	SL7T-1005	SL7T-1007	SL7T-1001

1. Rise Times are measured from 10% to 90% points.
2. Delay Times measured at 50% points of leading edge.
3. Output terminated to ground through  $R_L = Z_0$

Specifications subject to change without notice.

For other values & Custom Designs, contact factory.

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