

# High Performance Single Output SIP Passive Delay Lines

- 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 $^{\circ}C$

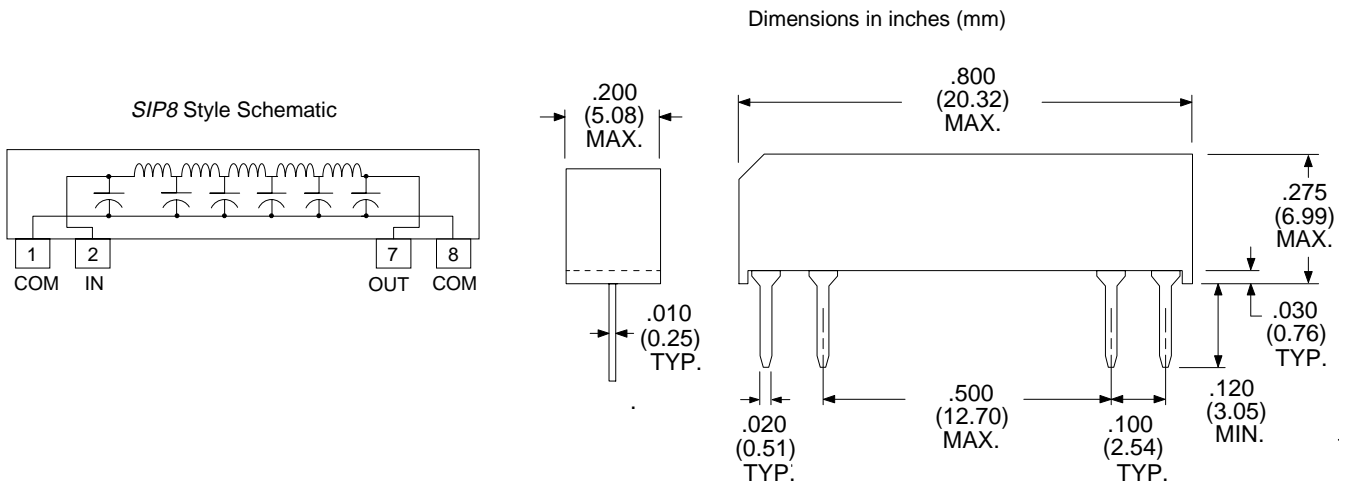
## Operating Specifications - Passive Delay Lines

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	200 Ohm Impedance Part Number
1.0 $\pm$ .30	0.8	0.8	SIP8-15	SIP8-17	SIP8-19	SIP8-11	SIP8-12
1.5 $\pm$ .30	0.9	1.1	SIP8-1.55	SIP8-1.57	SIP8-1.59	SIP8-1.51	SIP8-1.52
2.0 $\pm$ .30	1.1	1.2	SIP8-25	SIP8-27	SIP8-29	SIP8-21	SIP8-22
2.5 $\pm$ .30	1.1	1.3	SIP8-2.55	SIP8-2.57	SIP8-2.59	SIP8-2.51	SIP8-2.52
3.0 $\pm$ .30	1.3	1.4	SIP8-35	SIP8-37	SIP8-39	SIP8-31	SIP8-32
4.0 $\pm$ .30	1.6	1.5	SIP8-45	SIP8-47	SIP8-49	SIP8-41	SIP8-42
5.0 $\pm$ .30	1.8	1.5	SIP8-55	SIP8-57	SIP8-59	SIP8-51	SIP8-52
6.0 $\pm$ .40	1.9	1.6	SIP8-65	SIP8-67	SIP8-69	SIP8-61	SIP8-62
7.0 $\pm$ .40	2.1	1.6	SIP8-75	SIP8-77	SIP8-79	SIP8-71	SIP8-72
8.0 $\pm$ .45	2.2	1.6	SIP8-85	SIP8-87	SIP8-89	SIP8-81	SIP8-82
9.0 $\pm$ .45	2.4	1.7	SIP8-95	SIP8-97	SIP8-99	SIP8-91	SIP8-92
10 $\pm$ .50	2.5	1.7	SIP8-105	SIP8-107	SIP8-109	SIP8-101	SIP8-102
15 $\pm$ .70	3.7	2.1	SIP8-155	SIP8-157	SIP8-159	SIP8-151	SIP8-152
20 $\pm$ 1.0	4.6	2.4	SIP8-205	SIP8-207	SIP8-209	SIP8-201	SIP8-202
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	-----

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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