ACTIVE DELAY LINES

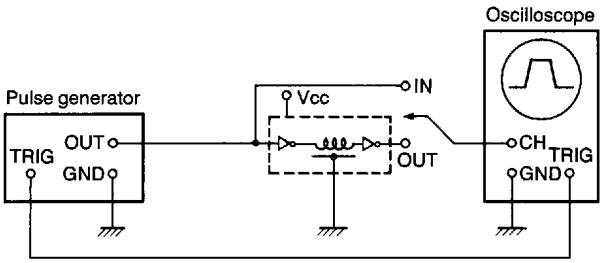
TEST CONDITIONS

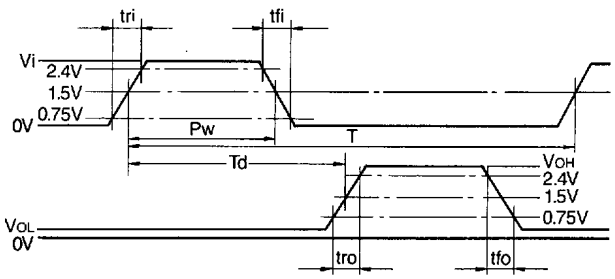
Input test conditions

Signal level Vi (V)	3.2
Pulse width Pw	3Td
Repetition cycle T	10Pw
Rise time tr (nsec.)	5 max.
Operating voltage Vcc (V)	5±0.1
Temperature (°C) [°F]	25±1 [77±1.8]

Output load conditions

Logic "1" output	20TTL load/tap (I_{OH}/I_{IH} = 1mA/50μA = 20)
Logic "0" output	10TTL load/tap (I_{OL}/I_{IL} = 20mA/2mA = 10)

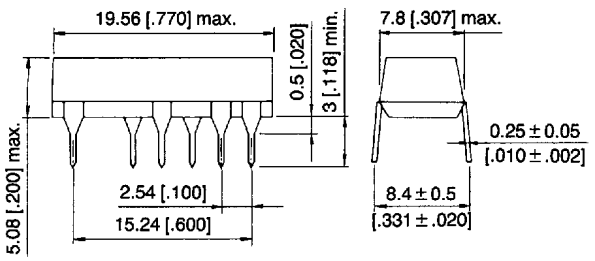
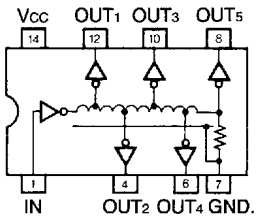
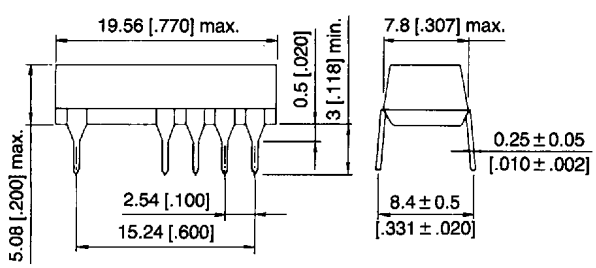
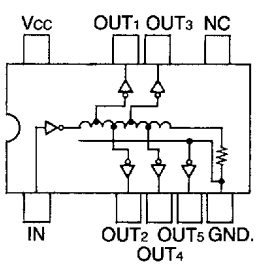


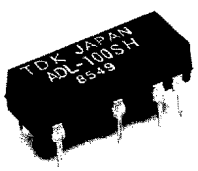


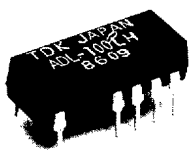
tro: Output pulse rise time
tfo: Output pulse fall time
VOL: Output "L" level voltage
VOH: Output "H" level voltage
Vi: Signal level
Td: Delay time
Pw: Pulse width
tri: Input pulse rise time
tfi: Input pulse fall time

CHARACTERISTICS

Item		Rated value			Measurement conditions
		Minimum	Standard	Maximum	
H level input voltage	V_{IH} (V)	2	—	—	
L level input voltage	V_{IL} (V)	—	—	0.8	
H level output voltage	V_{OH} (V)	2.7	3.4	—	V_{CC} = 4.75V, V_{IH} = 2V, I_{OH} = −1mA
L level output voltage	V_{OL} (V)	—	—	0.5	V_{CC} = 4.75V, V_{IL} = 0.8V, I_{OL} = 20mA
H level input current	I_{IH} (μA)	—	—	50 (SAD series: 20)	V_{CC} = 5.25V, V_I = 2.7V
L level input current	I_{IL} (μA)	—	—	−2 (SAD series: −0.6)	V_{CC} = 5.25V, V_I = 0.5V
Operating current	I_{CCL} (mA)	—	47 (EDL series: 45, SAD series: 24)	65 (EDL series: 70, SAD series: 28.5)	V_{CC} = 5.25V, V_{IL} = 0V
Operating voltage	V_{CC} (V)	4.75	5	5.25	

Series	Shapes and dimensions (mm) [inches] ±0.25 [.010]	Connections and pin numbering	Weight (g) max.	Fig.
ADL S type			2	1
L type			2	1





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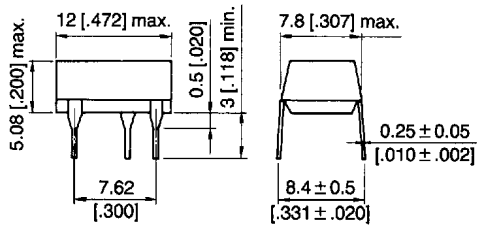
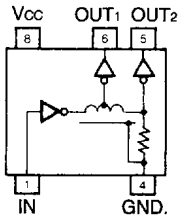
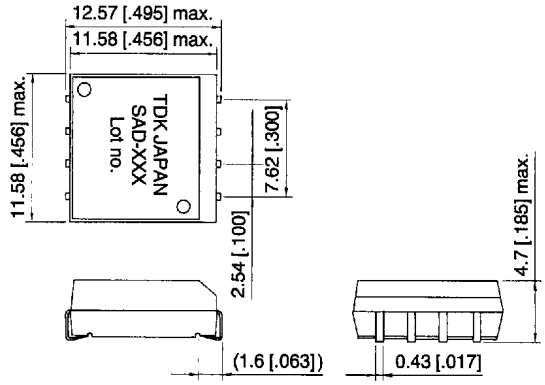
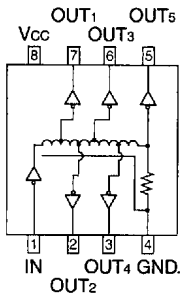
Delay Lines

Series	Shapes and dimensions (mm) [inches] ±0.25 [.010]	Connections and pin numbering	Weight (g) max.	Fig.
EDL			1.5	2
SAD			1.8	3

RATINGS

Part No.	Total delay time (nsec.)	Delay time between taps (nsec.)	Rise time (nsec.) max.	Minimum input pulse width (nsec.)	Fig.
ADL-020□*H	20±2	4±2	4	8	1
ADL-025□*H	25±3	5±2	4	10	
ADL-050□*H	50±3	10±2	4	20	
ADL-060□*H	60±3	12±3	4	24	
ADL-075□*H	75±5%	15±3	4	30	
ADL-100□*H	100±5%	20±3	4	40	
ADL-125□*H	125±5%	25±3	4	50	
ADL-150□*H	150±5%	30±3	4	60	
ADL-200□*H	200±5%	40±3	4	80	
ADL-250□*H	250±5%	50±3	4	100	
EDL-040B	40±4	20±3	4	24	2
EDL-050B	50±5	30±4	4	30	
EDL-060B	60±5	30±4	4	36	
EDL-070B	70±5	30±4	4	42	
EDL-080B	80±5	30±4	4	56	
EDL-090B	90±5	40±4	4	63	
EDL-100B	100±6	40±4	4	90	
EDL-110B	110±6	50±5	4	100	
EDL-120B	120±7	60±6	4	120	
EDL-150B	150±9	70±7	4	150	
SAD-020	20±2	4±2	4	8	3
SAD-025	25±3	5±2	4	10	
SAD-050	50±3	10±2	4	20	
SAD-060	60±3	12±3	4	24	
SAD-075	75±5%	15±3	4	30	
SAD-100	100±5%	20±3	4	40	
SAD-125	125±5%	25±3	4	50	
SAD-150	150±5%	30±3	4	60	
SAD-200	200±5%	40±3	4	80	
SAD-250	250±5%	50±3	4	100	

**□ : Please specify the type code S or L, when ordering.*