

VIDEO DELAY LINES VIDEO DELAY LINES VIDEO

T-47-21

Video Delay Lines Used by most of the worlds major television studios and broadcast equipment manufacturers.

Fixed video delay lines

	5.5MHz	10MHz			5.5MHz	10MHz
	Order Code	Order Code	Total Delay (ns)	Impedance Ω	Insertion Loss (dB)	Insertion Loss (dB)
0600B Series Outline 1	1101200200	1101200201	120	75 Ω	<0.50	<1.0
	1101300200	1101300201	130	75 Ω	<0.50	<1.0
	1101400200	1101400201	140	75 Ω	<0.50	<1.0
	1101500200	1101500201	150	75 Ω	<0.50	<1.0
	1101550200	1101550201	155	75 Ω	<0.50	<1.0
	1101600200	1101600201	160	75 Ω	<0.50	<1.0
	1101700200	1101700201	170	75 Ω	<0.50	<1.0
	1101800200	1101800201	180	75 Ω	<0.50	<1.0
	1101900200	1101900201	190	75 Ω	<0.50	<1.0
	1102000200	1102000201	200	75 Ω	<0.50	<1.0
0600H Series Outline 2	1103000200	1103000201	300	75 Ω	<0.80	<1.5
	1104000200	1104000201	400	75 Ω	<0.90	<1.5
	1105000200	1105000201	500	75 Ω	<1.5	<1.5
0600J Series Outline 3	1106000200	1106000201	600	75 Ω	<1.5	<3.5
	1107000200	1107000201	700	75 Ω	<1.8	<3.5
	1108000200	1108000201	800	75 Ω	<1.9	<4.5
	1109000200	1109000201	900	75 Ω	<2.3	<4.5
	1110000200	1110000201	1000	75 Ω	<2.5	<4.5

Delay Tolerance $\pm 2\%$
 Amplitude/Frequency Response ± 0.1 dB to 5.5 MHz w.r.t. 100 kHz
 ± 0.2 dB to 5.5 MHz to 8 MHz w.r.t. 100 kHz
 < 1 dB 8 MHz to 10 MHz w.r.t. 100 kHz
 Ripple < 0.1 dB to 5.5 MHz w.r.t. 100 kHz
 < 0.15 dB 5.5 MHz to 10 MHz
 Group Delay ± 5 ns 4.43 MHz
 ± 20 ns 4.43 MHz to 10 MHz
 Return Loss ≥ 25 dB to 5.5 MHz
 ≥ 20 dB 5.5 MHz to 10 MHz
 Operating Temperature 0°C to $+70^\circ\text{C}$
 Storage Temperature -50°C to $+125^\circ\text{C}$
 Operating Voltage 30 volts DC Max.
 Insulation Resistance 100 Megohms at 100 volts DC

Programmable video delay lines

	Order Code	Total Delay (ns)	Main Section Delay (ns)	Impedance Ω	Bandwidth (MHz)	Insertion Loss (dB)	Return Loss (dB)
0600G SERIES OUTLINE 4	1201150200	115	40	75 Ω	5.5	<0.5	25
	1201350200	135	60	75 Ω	5.5	<0.5	25
	1201550200	155	80	75 Ω	5.5	<0.5	25
0600V SERIES OUTLINE 6	1201550206	155	40 + 40	75 Ω	5.5	<0.5	25
	1201950206	195	60 + 60	75 Ω	5.5	<0.5	25
	1202350206	235	80 + 80	75 Ω	5.5	<0.5	25

Sectional Delay Tolerance

80 ns ± 2 ns
 40 ns ± 2 ns
 20 ns ± 2 ns
 -0 ns
 10 ns ± 3 ns
 -0 ns
 5 ns ± 3 ns
 -0 ns

Amplitude/Frequency Response

Ripple ± 0.1 dB to 5.5 MHz w.r.t. 100 kHz
 Return Loss < 0.1 dB to 5.5 MHz
 ≥ 25 dB to 5.5 MHz
 Group Delay ± 5 ns to 4.43 MHz
 Operating Temperature 0°C to $+70^\circ\text{C}$
 Storage Temperature -50°C to $+125^\circ\text{C}$
 Operating Voltage 30 volts DC max.
 Insulation Resistance 100 Megohms at 100 volts DC

PULSE DELAY LINES PULSE DELAY LINES PULSE DELAY

Tapped**0390 SERIES****CASE OUTLINE 5**

Order Code	Total Delay (ns)	Impedance Ω	Max. Rise Time (ns)
2300250208	25	75 Ω	5
2300400208	40	75 Ω	8
2300500208	50	75 Ω	10
2300750208	75	75 Ω	15
2301000208	100	75 Ω	20
2301500208	150	75 Ω	30
2303000208	300	75 Ω	60
2300500608	50	270 Ω	10
2300750608	75	270 Ω	15
2301000608	100	270 Ω	20
2301500608	150	270 Ω	30
2302000608	200	270 Ω	40
2302500608	250	270 Ω	50
2305000608	500	270 Ω	100
2300500708	50	500 Ω	10
2300750708	75	500 Ω	15
2301000708	100	500 Ω	20
2301500708	150	500 Ω	30
2302000708	200	500 Ω	40
2302500708	250	500 Ω	50

Programmable

Order Code	Total Delay	Sections	Impedance	Max. Rise Time
2201550208	155 ns	5 10 20 40 80 ns	75 Ω	35 ns
2206200208	620 ns	20 40 80 160 320 ns	75 Ω	125 ns

CASE OUTLINE 4

Order Code	Total Delay	Sections	Impedance	Max. Rise Time
0407 E	1500 ns	100 + 200 + 400 + 800 ns	75 Ω	180 ns

CASE OUTLINE 7

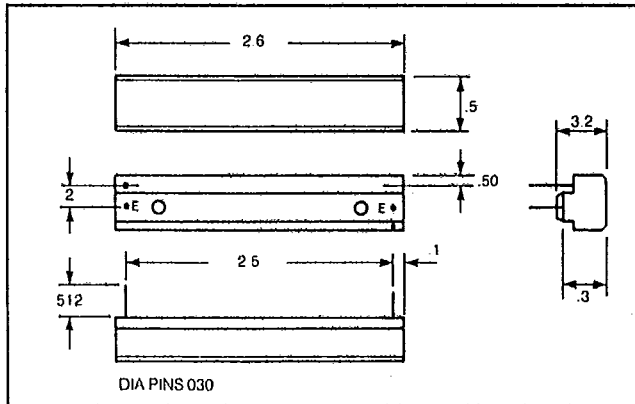
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PULSE DELAY LINES PULSE DELAY LINES PULSE DELAY

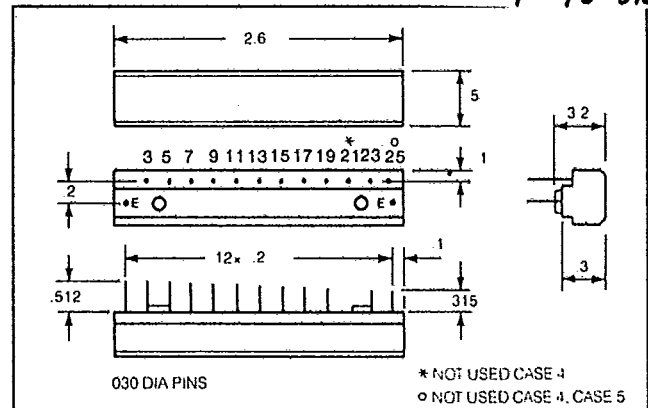
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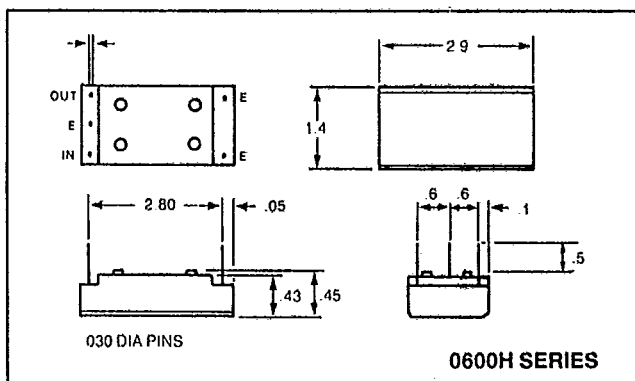
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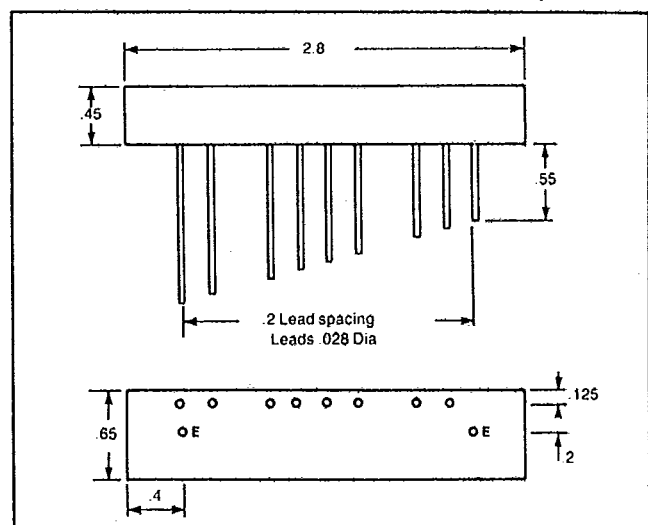
Case 1



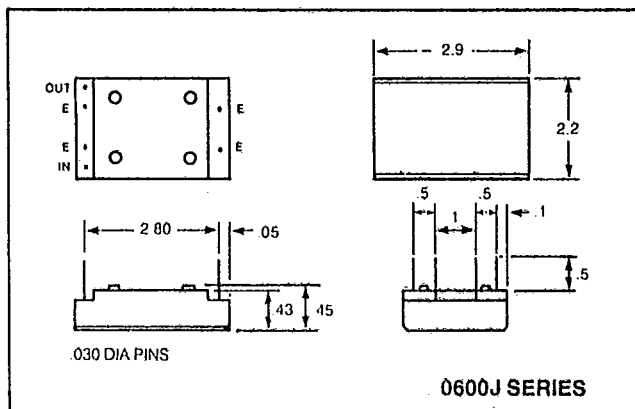
Case 4, 5, 6



Case 2



Case 7



Case 3