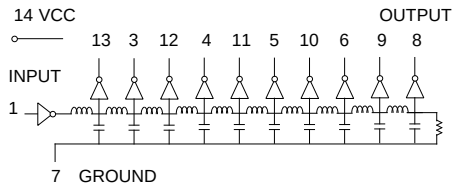
14 Pin DIP 10 Tap High Speed CMOS(HCT) Compatible Active Delay Lines

TAP DELAYS ±5% or ±2 nS†	TOTAL DELAYS ±5% or ±2 nS†	PART NUMBER	TAP DELAYS ±5% or ±2 nS†	TOTAL DELAYS ±5% or ±2 nS†	PART NUMBER
*4.0 ±1	48	EPA540-48	44	440	EPA540-440
*5.0 ±1	57	EPA540-57	45	450	EPA540-450
*6.0 ±1	66	EPA540-66	47	470	EPA540-470
*7.5 ±1	79.5	EPA540-79.5	50	500	EPA540-500
*10.0	102	EPA540-102	55	550	EPA540-550
12.5	125	EPA540-125	60	600	EPA540-600
15.0	150	EPA540-150	65	650	EPA540-650
17.5	175	EPA540-175	70	700	EPA540-700
20.0	200	EPA540-200	75	750	EPA540-750
22.5	225	EPA540-225	80	800	EPA540-800
25.0	250	EPA540-250	85	850	EPA540-850
30.0	300	EPA540-300	90	900	EPA540-900
35.0	350	EPA540-350	95	950	EPA540-950
40.0	400	EPA540-400	100	1000	EPA540-1000
42.0	420	EPA540-420			

*†Whichever is greater. Delay times referenced from input to leading edges at 25°C, 5.0V. * 1stt ap is 12 ± 2 nS.*

DC Electrical Characteristics Parameter		Test Conditions	Min	Max	Unit
V_{IH}	High Level Input Voltage	V_{CC}=4.5 to 5.5	2.0		Volt
V_{IL}	Low Level Input Voltage	V_{CC}=4.5 to 5.5		0.8	Volt
V_{OH}	High Level Output Voltage	V_{CC}=4.5V,I_O=-4.0mA @V_{IH} or V_{IL}	4.0		Volt
V_{OL}	Low Level Output Voltage	V_{CC}=4.5V,I_O= 4.0mA @V_{IH} or V_{IL}		0.3	Volt
I_L	Input Leakage Current	V_{CC}=5.5V @V_{IH} or V_{IL}		±1.0	uA
I_{CCL}	Supply Current	V_{CC}=5.5V, V_{IN}=0		15	mA
T_{RO}	Output Rise Time	≤550 nS (.75 - 2.4 Volts)		4	nS
		≥550 nS (.75 - 2.4 Volts)		5	nS
I_{OH}	High-Level Output Voltage			-4	nS
I_{OL}	Low-Level Output Voltage			4	nS

Schematic

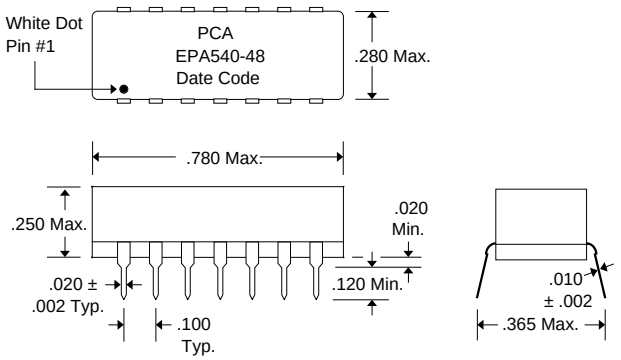


Recommended Operating Conditions		Min	Max	Unit
V_{CC}	DC Supply Voltage	4.5	5.5	Volt
V_I	DC Input Voltage Range	0	V_{CC}	Volt
V_O	DC Output Voltage Range	0	V_{CC}	Volt
P_W*	Pulse Width % of Total Delay	40		%
D*	Duty Cycle		40	%
T_A	Operating Free Air Temperature	0	70	°C

**These two values are inter-dependent.*

Input Pulse Test Conditions @ 25°C			Unit
E_{IN}	Pulse Input Voltage	3.2	Volts
P_W	Pulse Width % of Total Delay	150	%
T_{RI}	Input Rise Time (0.75 - 2.4 Volts)	2.0	nS
P_{RR}	Pulse Repetition Rate @ PW ≤ 500nS	1.0	MHz
	Pulse Repetition Rate @ PW > 500nS	100	KHz
V_{CC}	Supply Voltage	5.0	Volts

Package Dimensions



Unless Otherwise Noted Dimensions in Inches
Tolerances:
Fractional = ± 1/32
.XX = ± .030 .XXX = ± .010

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