

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			

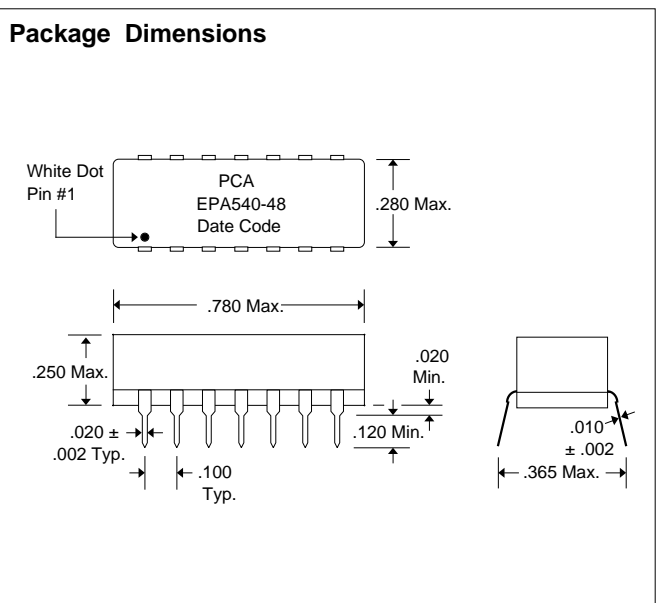
† Whichever is greater. Delay times referenced from input to leading edges at 25°C, 5.0V. * 1st tap is 12 ± 2 nS.

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) 550 nS (.75 - 2.4 Volts)		4	nS
I _{OH}	High-Level Output Voltage			5	nS
I _{OL}	Low-Level Output Voltage			-4	nS
				4	nS

Schematic

Recommended Operating Conditions				
	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
PW*	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
PW	Pulse Width % of Total Delay	150		%
T _{RI}	Input Rise Time (0.75 - 2.4 Volts)	2.0		nS
PRR	Pulse Repetition Rate @ PW < 500nS	1.0		MHz
	Pulse Repetition Rate @ PW > 500nS	100		KHz
V _{CC}	Supply Voltage	5.0		Volts

DSA540 Rev. A 2/5/96

QAF-CS01 Rev. B 8/25/94

Unless Otherwise Noted Dimensions in Inches

Tolerances:
Fractional = ± 1/32
.XX = ± .030 .XXX = ± .010



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