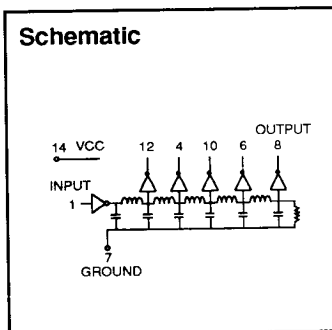


14 Pin DIL 5 Tap High Speed CMOS (HCT) Compatible Active Delay Lines

Tap Delays ±5% or ±2 nS				Total Delay ±5% or ±2 nS	Part Number	Tap Delays ±5% or ±2 nS				Total Delay ±5% or ±2 nS	Part Number
12*	17	22	27	32	EPA220-32	20	40	60	80	100	EPA220-100
12*	18	24	30	36	EPA220-36	25	50	75	100	125	EPA220-125
12*	19	26	33	40	EPA220-40	30	60	90	120	150	EPA220-150
12*	20	28	36	44	EPA220-44	35	70	105	140	175	EPA220-175
12*	21	30	39	48	EPA220-48	40	80	120	160	200	EPA220-200
12*	22	32	42	52	EPA220-52	50	100	150	200	250	EPA220-250
12*	24	36	48	60	EPA220-60	60	120	180	240	300	EPA220-300
15	30	45	60	75	EPA220-75	70	140	210	280	350	EPA220-350
19	38	57	76	95	EPA220-95						

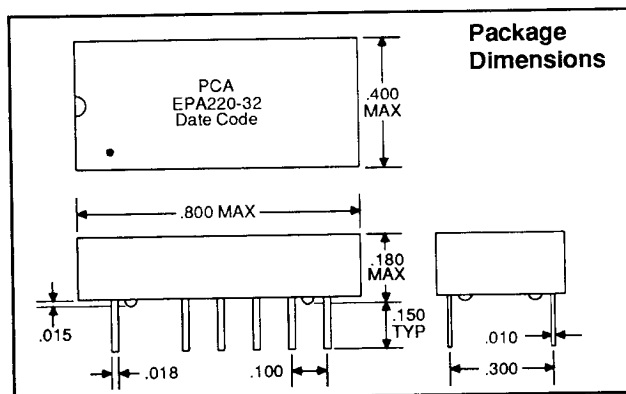
* Inherent Delay • Delay times referenced from input to leading edges at 25°C, 5.0V.

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 _{CC}	Supply Current	V _{CC} =5.5V, V _{IN} =0		15	mA
T _{RO}	Output Rise Time	≤550 nS (.75 - 2.4 Volts)		4	nS
N _H	High Fanout	V _{CC} =5.5V, V _{OH} =4.0V	10	LSTTL Load	



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
I _O	DC Output Source/Sink Current		25	mA
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 (Taps Unloaded)		
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
P _{RR}	Pulse Repetition Rate @ T _d ≤ 200nS	1.0 MHz
	Pulse Repetition Rate @ T _d > 200nS	300 KHz
V _{CC}	Supply Voltage	5.0 Volts

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