

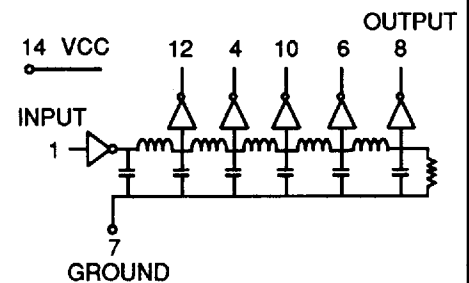
14 Pin DIP 5 Tap TTL Compatible Active Delay Lines

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
5, 10, 15, 20	25	EP8200	80, 160, 240, 320	400	EP8208
6, 12, 18, 24	30	EP8213	84, 168, 252, 336	420	EP8218
7, 14, 21, 28	35	EP8214	88, 176, 264, 352	440	EP8222
8, 16, 24, 32	40	EP8215	90, 180, 270, 360	450	EP8209
9, 18, 27, 36	45	EP8216	94, 188, 282, 376	470	EP8223
10, 20, 30, 40	50	EP8201	100, 200, 300, 400	500	EP8210
12, 24, 36, 48	60	EP8211	110, 220, 330, 440	550	EP8230
15, 30, 45, 60	75	EP8217	120, 240, 360, 480	600	EP8224
20, 40, 60, 80	100	EP8202	130, 260, 390, 520	650	EP8231
25, 50, 75, 100	125	EP8219	140, 280, 420, 560	700	EP8225
30, 60, 90, 120	150	EP8203	150, 300, 450, 600	750	EP8229
35, 70, 105, 140	175	EP8220	160, 320, 480, 640	800	EP8226
40, 80, 120, 160	200	EP8204	170, 340, 510, 680	850	EP8232
45, 90, 135, 180	225	EP8221	180, 360, 540, 720	900	EP8227
50, 100, 150, 200	250	EP8205	190, 380, 570, 760	950	EP8233
60, 120, 180, 240	300	EP8206	200, 400, 600, 800	1000	EP8228
70, 140, 210, 280	350	EP8207			

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

DC Electrical Characteristics					
Parameter	Test Conditions	Min	Max	Unit	
V _{OH}	High-Level Output Voltage	V _{CC} = min. V _{IL} = max. I _{OH} = max	2.7	V	
V _{OL}	Low-Level Output Voltage	V _{CC} = min. V _{IH} = min. I _{OL} = max	0.5	V	
V _{IK}	Input Clamp Voltage	V _{CC} = min. I _I = I _{IK}	-1.2	V	
I _{IH}	High-Level Input Current	V _{CC} = max. V _{IN} = 2.7V	50	µA	
I _{IL}	Low-Level Input Current	V _{CC} = max. V _{IN} = 5.25V	1.0	mA	
I _{OS}	Short Circuit Output Current	V _{CC} = max. V _{IN} = 0.5V	-2	mA	
I _{CCH}	High-Level Supply Current	V _{CC} = max. V _{OUT} = 0.	-40	mA	
I _{CCL}	Low-Level Supply Current	(One output at a time)	-100	mA	
T _{RO}	Output Rise Time	V _{CC} = max. V _{IN} = OPEN	75	nS	
		V _{CC} = max. V _{IN} = 0	75	nS	
N _H	Fanout High-Level Output	T _d ≤ 500 nS (0.75 to 2.4 Volts)	4	nS	
N _L	Fanout Low-Level Output	T _d > 500 nS	5	nS	
		V _{CC} = max. V _{OH} = 2.7V	20 TTL LOAD		
		V _{CC} = max. V _{OL} = 0.5V	10 TTL LOAD		

Schematic

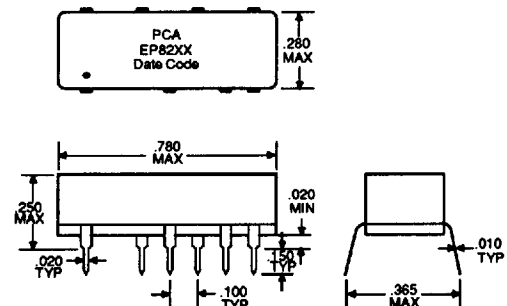


Recommended Operating Conditions				
	Min	Max	Unit	
V _{CC}	4.75	5.25	V	
V _{IH}	2.0		V	
V _{IL}		0.8	V	
I _{IK}		-18	mA	
I _{OH}		-1.0	mA	
I _{OL}		20	mA	
PW*	40		%	
d*		40	%	
T _A	0	+70	°C	

*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	110	%	
T _{RI}	Pulse Rise Time (0.75 - 2.4 Volts)	2.0	nS	
PRR	Pulse Repetition Rate @ T _d ≤ 200 nS	1.0	MHz	
	Pulse Repetition Rate @ T _d > 200 nS	100	KHz	
V _{CC}	Supply Voltage	5.0	Volts	

Package Dimensions



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