

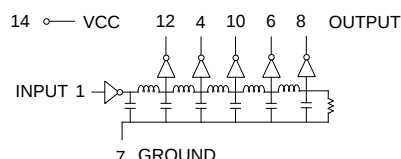
14 Pin DIP 5 Tap TTL Compatible High Speed Active Delay Lines

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	EPA1220HL-25	80, 160, 240, 320	400	EPA1220HL-400
6, 12, 18, 24	30	EPA1220HL-30	84, 168, 252, 336	420	EPA1220HL-420
7, 14, 21, 28	35	EPA1220HL-35	88, 176, 264, 352	440	EPA1220HL-440
8, 16, 24, 32	40	EPA1220HL-40	90, 180, 270, 360	450	EPA1220HL-450
9, 18, 27, 36	45	EPA1220HL-45	94, 188, 282, 376	470	EPA1220HL-470
10, 20, 30, 40	50	EPA1220HL-50	100, 200, 300, 400	500	EPA1220HL-500
12, 24, 36, 48	60	EPA1220HL-60	110, 220, 330, 440	550	EPA1220HL-550
15, 30, 45, 60	75	EPA1220HL-75	120, 240, 360, 480	600	EPA1220HL-600
20, 40, 60, 80	100	EPA1220HL-100	130, 260, 390, 520	650	EPA1220HL-650
25, 50, 75, 100	125	EPA1220HL-125	140, 280, 420, 560	700	EPA1220HL-700
30, 60, 90, 120	150	EPA1220HL-150	150, 300, 450, 600	750	EPA1220HL-752
35, 70, 105, 140	175	EPA1220HL-175	160, 320, 480, 640	800	EPA1220HL-800
40, 80, 120, 160	200	EPA1220HL-200	170, 340, 510, 680	850	EPA1220HL-850
45, 90, 135, 180	225	EPA1220HL-225	180, 360, 540, 720	900	EPA1220HL-900
50, 100, 150, 200	250	EPA1220HL-250	190, 380, 570, 760	950	EPA1220HL-950
60, 120, 180, 240	300	EPA1220HL-300	200, 400, 600, 800	1000	EPA1220HL-1000
70, 140, 210, 280	350	EPA1220HL-350			

Delay times referenced from input to leading edges at 25°C, 5.0V, with no load.

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
		V _{CC} = max. V _{IN} = 5.25V	1.0		mA
I _{IL}	Low-Level Input Current	V _{CC} = max. V _{IN} = 0.5V	-2		mA
I _{OS}	Short Circuit Output Current	V _{CC} = max. V _{OUT} = 0.	-100		mA
	(One output at a time)				
I _{CCH}	High-Level Supply Current	V _{CC} = max. V _{IN} = OPEN	75		mA
I _{CCL}	Low-Level Supply Current	V _{CC} = max. V _{IN} = 0	75		mA
T _{RO}	Output Rise Time	T _d ≤ 500 nS (0.75 to 2.4 Volts)	4		nS
		T _d > 500 nS	5		nS
N _H	Fanout High-Level Output	V _{CC} = max. V _{OH} = 2.7V	20		TTL LOAD
N _L	Fanout Low-Level Output	V _{CC} = max. V _{OL} = 0.5V	10		TTL LOAD

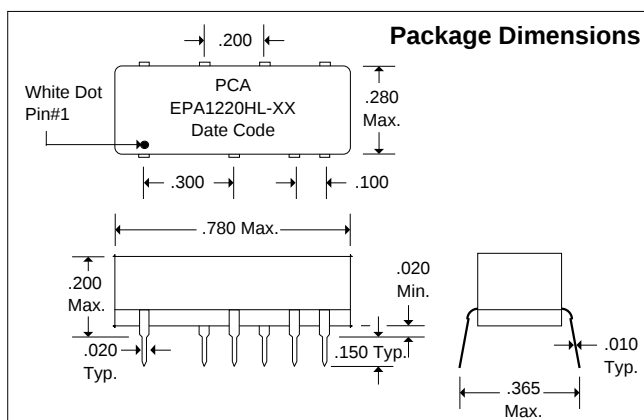
Schematic



Recommended Operating Conditions		Min	Max	Unit	
V _{CC}	Supply Voltage	4.75	5.25		V
V _{IH}	High-Level Input Voltage	2.0			V
V _{IL}	Low-Level Input Voltage		0.8		V
I _{IK}	Input Clamp Current		-18		mA
I _{OH}	High-Level Output Current		-1.0		mA
I _{OL}	Low-Level Output Current		20		mA
PW*	Pulse Width of Total Delay	40			%
d*	Duty Cycle		40		%
T _A	Operating Free-Air Temperature	-55	+125		°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



16799 SCHOENBORN ST.
NORTH HILLS, CA 91343
TEL: (818) 892-0761
FAX: (818) 894-5791