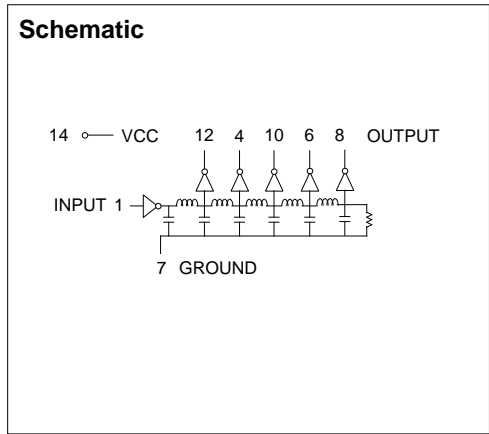


# 14 Pin DIP 5 Tap Low Power TTL Compatible Active Delay Lines

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
10, 20, 30, 40	50	EP8270	30, 60, 90, 120	150	EP8282
11, 22, 33, 44	55	EP8271	35, 70, 105, 140	175	EP8283
12, 24, 36, 48	60	EP8272	40, 80, 120, 160	200	EP8284
13, 26, 39, 52	65	EP8273	45, 90, 135, 180	225	EP8285
14, 28, 42, 56	70	EP8274	50, 100, 150, 200	250	EP8286
15, 30, 45, 60	75	EP8275	55, 110, 165, 220	275	EP8287
16, 32, 48, 64	80	EP8276	60, 120, 180, 240	300	EP8288
17, 34, 51, 68	85	EP8277	70, 140, 210, 280	350	EP8289
18, 36, 54, 72	90	EP8278	80, 160, 240, 320	400	EP8290
19, 38, 57, 76	95	EP8279	90, 180, 270, 360	450	EP8291
20, 40, 60, 80	100	EP8280	100, 200, 300, 400	500	EP8292
25, 50, 75, 100	125	EP8281			

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

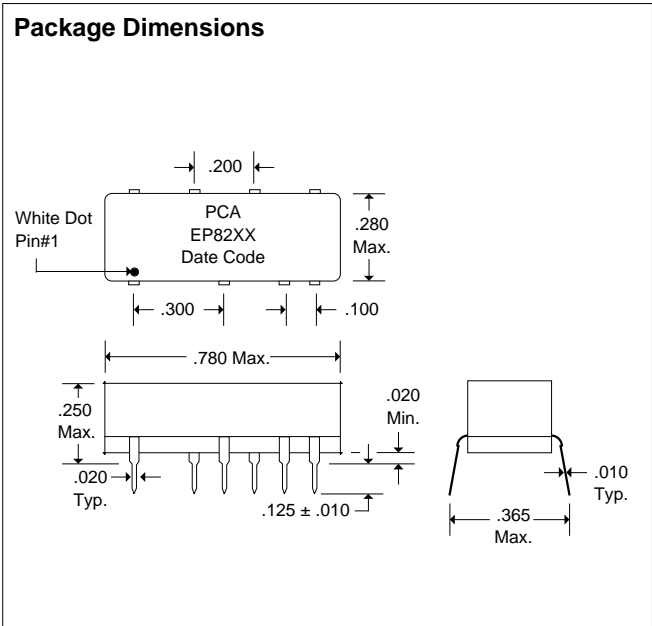
DC Electrical Characteristics		Test Conditions	Min	Max	Unit
Parameter					
V <sub>OH</sub>	High-Level Output Voltage	V <sub>CC</sub> = min. V <sub>IL</sub> = max. I <sub>OH</sub> = max	2.7		V
V <sub>OL</sub>	Low-Level Output Voltage	V <sub>CC</sub> = min. V <sub>IH</sub> = min. I <sub>OL</sub> = max		0.5	V
V <sub>IK</sub>	Input Clamp Voltage	V <sub>CC</sub> = min. I <sub>I</sub> = I <sub>IK</sub>		-1.5	V
I <sub>IH</sub>	High-Level Input Current	V <sub>CC</sub> = max. V <sub>IN</sub> = 2.7V		20	µA
		V <sub>CC</sub> = max. V <sub>IN</sub> = 5.25V		0.1	mA
I <sub>IL</sub>	Low-Level Input Current	V <sub>CC</sub> = max. V <sub>IN</sub> = 0.5V		-0.36	mA
I <sub>OS</sub>	Short Circuit Output Current	V <sub>CC</sub> = max. V <sub>OUT</sub> = 0. (One output at a time)	-5	-42	mA
I <sub>CCH</sub>	High-Level Supply Current	V <sub>CC</sub> = max. V <sub>IN</sub> = OPEN		30	mA
I <sub>CCL</sub>	Low-Level Supply Current	V <sub>CC</sub> = max. V <sub>IN</sub> = 0		30	mA
T <sub>RO</sub>	Output Rise Time	T <sub>d</sub> 500 nS (0.75 to 2.4 Volts)		8	nS
N <sub>H</sub>	Fanout High-Level Output	V <sub>CC</sub> = max. V <sub>OH</sub> = 2.7V	20 TTL LOAD		
N <sub>L</sub>	Fanout Low-Level Output	V <sub>CC</sub> = max. V <sub>OL</sub> = 0.5V	20LS TTL LOAD		



Recommended Operating Conditions		Min	Max	Unit
V <sub>CC</sub>	Supply Voltage	4.75	5.25	V
V <sub>IH</sub>	High-Level Input Voltage	2.0		V
V <sub>IL</sub>	Low-Level Input Voltage		0.8	V
I <sub>IK</sub>	Input Clamp Current		-18	mA
I <sub>OH</sub>	High-Level Output Current		-0.4	mA
I <sub>OL</sub>	Low-Level Output Current		8	mA
PW*	Pulse Width of Total Delay	40		%
d*	Duty Cycle		40	%
T <sub>A</sub>	Operating Free-Air Temperature	0	+70	°C

\*These two values are inter-dependent.

Input Pulse Test Conditions		Unit
E <sub>IN</sub>	Pulse Input Voltage	3.2 Volts
PW	Pulse Width % of Total Delay	110 %
T <sub>RI</sub>	Pulse Rise Time (0.75 - 2.4 Volts)	2.0 nS
PRR	Pulse Repetition Rate @ T <sub>d</sub> 200 nS	1.0 MHz
	Pulse Repetition Rate @ T <sub>d</sub> > 200 nS	100 KHz
V <sub>CC</sub>	Supply Voltage	5.0 Volts



DSD82XXb Rev. A 2/5/96

QAF-CSO1 Rev. B 8/25/94

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



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