

8 Pin DIP Dual TTL Compatible Active Delay Lines

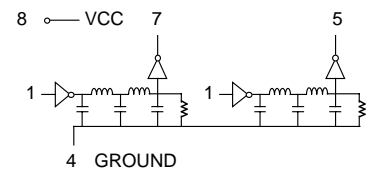
DELAY TIME*	PART NUMBER	DELAY TIME*	PART NUMBER	DELAY TIME*	PART NUMBER
5 ± 1	EPA445-5	18	EPA445-18	55	EPA445-55
6 ± 1	EPA445-6	19	EPA445-19	60	EPA445-60
7 ± 1	EPA445-7	20	EPA445-20	65	EPA445-65
8 ± 1	EPA445-8	21	EPA445-21	70	EPA445-70
9 ± 1	EPA445-9	22	EPA445-22	75	EPA445-75
10 ± 1.5	EPA445-10	23	EPA445-23	80	EPA445-80
11 ± 1.5	EPA445-11	24	EPA445-24	85	EPA445-85
12 ± 1.5	EPA445-12	25	EPA445-25	90	EPA445-90
13 ± 1.5	EPA445-13	30	EPA445-30	95	EPA445-95
14 ± 1.5	EPA445-14	35	EPA445-35	100	EPA445-100
15	EPA445-15	40	EPA445-40	150	EPA445-150
16	EPA445-16	45	EPA445-45	200	EPA445-200
17	EPA445-17	50	EPA445-50	250	EPA445-250

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

* Unless otherwise specified, delay tolerance is ± 2 nS or ± 5%, whichever is greater.

DC Electrical Characteristics		Test Conditions	Min	Max	Unit
Parameter					
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}		-1.2V	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. (One output at a time)	-40	-100	mA
I _{CCH}	High-Level Supply Current	V _{CC} = max. V _{IN} = OPEN		90	mA
I _{CCL}	Low-Level Supply Current	V _{CC} = max. V _{IN} = 0		90	mA
T _{RO}	Output Rise Time			4	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	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	1.0 MHz
V _{CC}	Supply Voltage	5.0 Volts

Package Dimensions

