

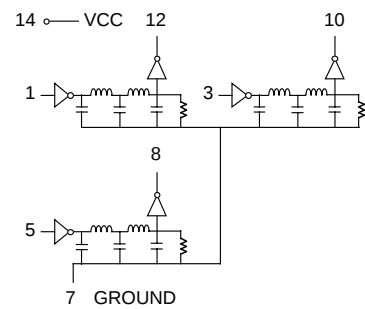
14 Pin DIL Triple TTL Compatible Active Delay Lines

DELAY TIME ±5% or 2 nS†	PART NUMBER	DELAY TIME ±5 or 2 nS†	PART NUMBER	DELAY TIME ±5% or 2 nS†	PART NUMBER
5	EPA189-5	19	EPA189-19	65	EPA189-65
6	EPA189-6	20	EPA189-20	70	EPA189-70
7	EPA189-7	21	EPA189-21	75	EPA189-75
8	EPA189-8	22	EPA189-22	80	EPA189-80
9	EPA189-9	23	EPA189-23	85	EPA189-85
10	EPA189-10	24	EPA189-24	90	EPA189-90
11	EPA189-11	25	EPA189-25	95	EPA189-95
12	EPA189-12	30	EPA189-30	100	EPA189-100
13	EPA189-13	35	EPA189-35	125	EPA189-125
14	EPA189-14	40	EPA189-40	150	EPA189-150
15	EPA189-15	45	EPA189-45	175	EPA189-175
16	EPA189-16	50	EPA189-50	200	EPA189-200
17	EPA189-17	55	EPA189-55	225	EPA189-225
18	EPA189-18	60	EPA189-60	250	EPA189-250

†Whichever is greater. 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}	-1.2V		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		mA
I _{CCH}	High-Level Supply Current	V _{CC} = max. V _{IN} = OPEN	115		mA
I _{CCL}	Low-Level Supply Current	V _{CC} = max. V _{IN} = 0	115		mA
T _{RO}	Output Rise Time	T _d ≤ 500 nS (0.75 to 2.4 Volts)	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		

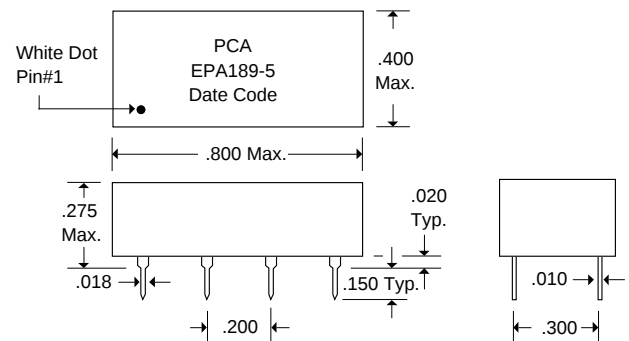
Schematic



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.

Package Dimensions



Input Pulse Test Conditions @ 25° C			Unit
E _{IN}	Pulse Input Voltage	3.2	Volts
P _W	Pulse Width % of Total Delay	110	%
T _{RI}	Pulse Rise Time (0.75 - 2.4 Volts)	2.0	nS
P _{RR}	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