

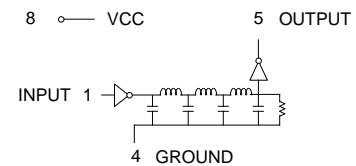
# SMD 8 Pin Single Output TTL Compatible Active Delay Lines

TIME DELAY (ns) ±5% or ±2 nS†	PART NUMBER	TIME DELAY (ns) ±5% or ±2 nS†	PART NUMBER
5	EPA426-5	50	EPA426-50
10	EPA426-10	60	EPA426-60
12	EPA426-12	75	EPA426-75
15	EPA426-15	100	EPA426-100
20	EPA426-20	125	EPA426-125
25	EPA426-25	150	EPA426-150
30	EPA426-30	175	EPA426-175
35	EPA426-35	200	EPA426-200
40	EPA426-40	225	EPA426-225
45	EPA426-45	250	EPA426-250

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

DC Electrical Characteristics		Min	Max	Unit
Parameter	Test Conditions			
V <sub>OH</sub>	High-Level Output Voltage	2.7		V
V <sub>OL</sub>	Low-Level Output Voltage		0.5	V
V <sub>IK</sub>	Input Clamp Voltage		-1.2	V
I <sub>IH</sub>	High-Level Input Current		50	µA
	V <sub>CC</sub> = min. V <sub>IH</sub> = min. I <sub>OL</sub> = max		1.0	mA
	V <sub>CC</sub> = max. V <sub>IN</sub> = 2.7V		-2	mA
	V <sub>CC</sub> = max. V <sub>IN</sub> = 5.25V		-100	mA
I <sub>IL</sub>	Low-Level Input Current		75	mA
I <sub>OS</sub>	Short Circuit Output Current	-40	75	mA
I <sub>CCH</sub>	High-Level Supply Current		75	mA
I <sub>CCL</sub>	Low-Level Supply Current		75	mA
T <sub>RO</sub>	Output Rise Time		4	nS
N <sub>H</sub>	Fanout High-Level Output		20	TTL LOAD
N <sub>L</sub>	Fanout Low-Level Output		10	TTL LOAD

## Schematic



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		-1.0	mA
I <sub>OL</sub>	Low-Level Output Current		20	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 @ 25° C		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
P <sub>RR</sub>	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

## Package Dimensions

