

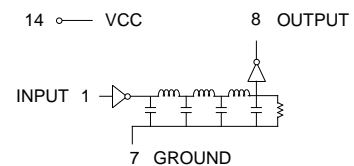
SMD 14 Pin Single Output TTL Compatible Active Delay Lines

TIME DELAYS (nS) ±5% or ±2 nS†	PART NUMBER	TIME DELAYS (nS) ±5% or ±2 nS†	PART NUMBER	TIME DELAYS (nS) ±5% or ±2 nS†	PART NUMBER
5	EPA810-5	23	EPA810-23	125	EPA810-125
6	EPA810-6	24	EPA810-24	150	EPA810-150
7	EPA810-7	25	EPA810-25	175	EPA810-175
8	EPA810-8	30	EPA810-30	200	EPA810-200
9	EPA810-9	35	EPA810-35	225	EPA810-225
10	EPA810-10	40	EPA810-40	250	EPA810-250
11	EPA810-11	45	EPA810-45	275	EPA810-275
12	EPA810-12	50	EPA810-50	300	EPA810-300
13	EPA810-13	55	EPA810-55	350	EPA810-350
14	EPA810-14	60	EPA810-60	400	EPA810-400
15	EPA810-15	65	EPA810-65	500	EPA810-500
16	EPA810-16	70	EPA810-70	600	EPA810-600
17	EPA810-17	75	EPA810-75	700	EPA810-700
18	EPA810-18	80	EPA810-80	800	EPA810-800
19	EPA810-19	85	EPA810-85	900	EPA810-900
20	EPA810-20	90	EPA810-90	1000	EPA810-1000
21	EPA810-21	95	EPA810-95		
22	EPA810-22	100	EPA810-100		

† 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 _{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.	-40	-100	mA
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
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 @ T _d = 200 nS	1.0	MHz
	Pulse Repetition Rate @ T _d > 200 nS	100	KHz
V _{CC}	Supply Voltage	5.0	Volts

Package Dimensions

