14 Pin DIL 10 Tap TTL Compatible Active Delay Lines MIL 883

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
5	50	EP9749-50	44	440	EP9749-440
6	60	EP9749-60	45	450	EP9749-450
7.5	75	EP9749-75	47	470	EP9749-470
10	100	EP9749-100	50	500	EP9749-500
12.5	125	EP9749-125	55	550	EP9749-550
15	150	EP9749-150	60	600	EP9749-600
17.5	175	EP9749-175	65	650	EP9749-650
20	200	EP9749-200	70	700	EP9749-700
22.5	225	EP9749-225	75	750	EP9749-750
25	250	EP9749-250	80	800	EP9749-800
30	300	EP9749-300	85	850	EP9749-850
35	350	EP9749-350	90	900	EP9749-900
40	400	EP9749-400	95	950	EP9749-950
42	420	EP9749-420	100	1000	EP9749-1000

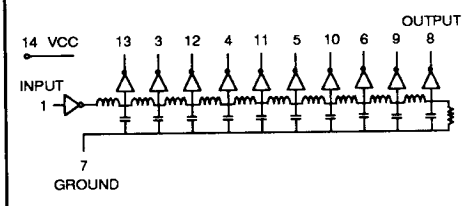
Delay times referenced from input to leading edges

All units are supplied with ceramic IC's that have been screened to MIL-STD-883

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	-100	mA
I_{CCH}	High-Level Supply Current	V_{CC} = max. V_{IN} = OPEN		150	mA
I_{CCL}	Low-Level Supply Current	V_{CC} = max. V_{IN} = 0		150	mA
T_{RO}	Output Rise Time	Td ≤ 500 nS (0.75 to 2.4 Volts)		4	nS
		Td > 500 nS		5	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

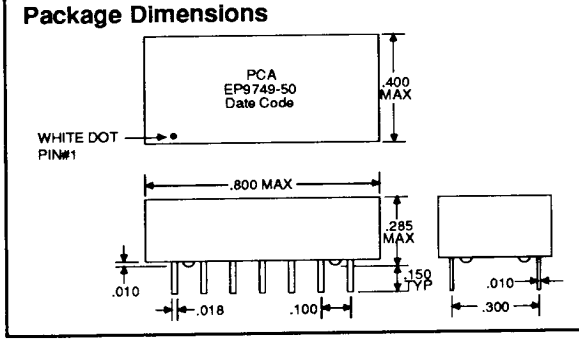


Recommended Operating Conditions

		Min	Max	Unit
V_{CC}	Supply Voltage	4.5	5.5	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
P_W*	Pulse Width of Total Delay	40		%
d*	Duty Cycle		40	%
T_A	Operating Free-Air Temperature	-55	+125	°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 @ Td ≤ 200 nS	1.0	MHz
	Pulse Repetition Rate @ Td > 200 nS	100	KHz
V_{CC}	Supply Voltage	5.0	Volts

PCA ELECTRONICS INC.
16799 SCHOENBORN ST.
SEPULVEDA, CA 91343
TEL: (818) 892-0761
FAX: (818) 894-5791
TWX: (910) 496-1525