

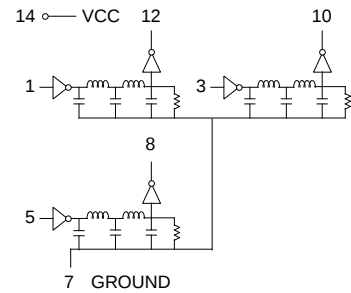
8 Pin SIL Triple TTL Compatible Active Delay Lines

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	EP9934-5	19	EP9934-19	65	EP9934-65
6	EP9934-6	20	EP9934-20	70	EP9934-70
7	EP9934-7	21	EP9934-21	75	EP9934-75
8	EP9934-8	22	EP9934-22	80	EP9934-80
9	EP9934-9	23	EP9934-23	85	EP9934-85
10	EP9934-10	24	EP9934-24	90	EP9934-90
11	EP9934-11	25	EP9934-25	95	EP9934-95
12	EP9934-12	30	EP9934-30	100	EP9934-100
13	EP9934-13	35	EP9934-35	125	EP9934-125
14	EP9934-14	40	EP9934-40	150	EP9934-150
15	EP9934-15	45	EP9934-45	175	EP9934-175
16	EP9934-16	50	EP9934-50	200	EP9934-200
17	EP9934-17	55	EP9934-55	225	EP9934-225
18	EP9934-18	60	EP9934-60	250	EP9934-250

†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.	-40		mA
		(One output at a time)			
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

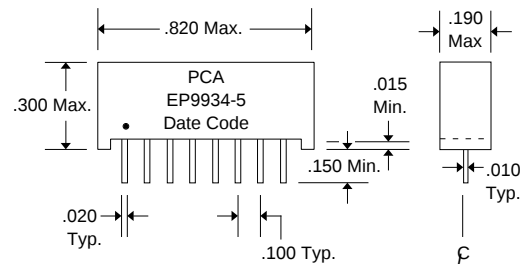


Recommended Operating Conditions		Min	Max	Unit
V _{CC}	Supply Voltage	4.75	5.25	V
V _{IH}	High-Level Input Voltage	2.0		V
V _{IL}	Low-Level Input Voltage		0.8	V
I _{IK}	Input Clamp Current		-18	mA
I _{OH}	High-Level Output Current		-1.0	mA
I _{OL}	Low-Level Output Current		20	mA
PW*	Pulse Width of Total Delay	40		%
d*	Duty Cycle		40	%
T _A	Operating Free-Air Temperature	0	+70	°C

*These two values are inter-dependent.

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



DSD9934 Rev. A 2/5/96

Unless Otherwise Noted Dimensions in Inches
Tolerances:

Fractional = ± 1/32
.XX = ± .030 .XXX = ± .010



QAF-CS01 Rev. B 8/25/94

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