

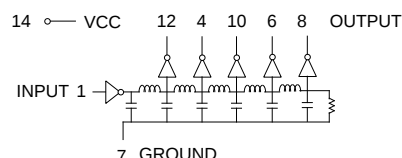
14 Pin DIP 5 Tap Low-Profile TTL Compatible Active Delay Lines

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, 10, 15, 20	25	EP9300	80, 160, 240, 320	400	EP9308
6, 12, 18, 24	30	EP9313	84, 168, 252, 336	420	EP9318
7, 14, 21, 28	35	EP9314	88, 176, 264, 352	440	EP9322
8, 16, 24, 32	40	EP9315	90, 180, 270, 360	450	EP9309
9, 18, 27, 36	45	EP9316	94, 188, 282, 376	470	EP9323
10, 20, 30, 40	50	EP9301	100, 200, 300, 400	500	EP9310
12, 24, 36, 48	60	EP9311	110, 220, 330, 440	550	EP9330
15, 30, 45, 60	75	EP9317	120, 240, 360, 480	600	EP9324
20, 40, 60, 80	100	EP9302	130, 260, 390, 520	650	EP9331
25, 50, 75, 100	125	EP9319	140, 280, 420, 560	700	EP9325
30, 60, 90, 120	150	EP9303	150, 300, 450, 600	750	EP9329
35, 70, 105, 140	175	EP9320	160, 320, 480, 640	800	EP9326
40, 80, 120, 160	200	EP9304	170, 340, 510, 680	850	EP9332
45, 90, 135, 180	225	EP9321	180, 360, 540, 720	900	EP9327
50, 100, 150, 200	250	EP9305	190, 380, 570, 760	950	EP9333
60, 120, 180, 240	300	EP9306	200, 400, 600, 800	1000	EP9328
70, 140, 210, 280	350	EP9307			

†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
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
		(One output at a time)			
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
		T _d > 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

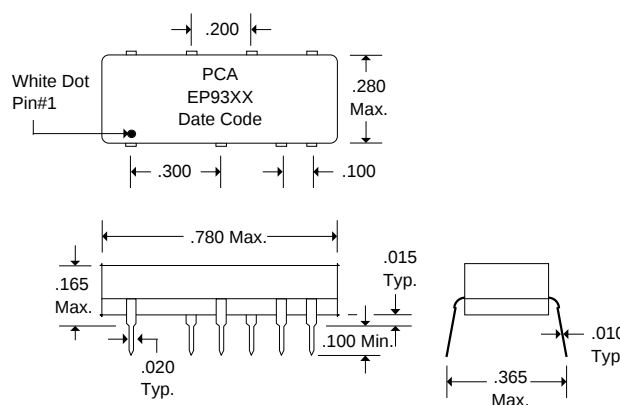


Recommended Operating Conditions		Min	Max	Unit
V _{CC}	Supply Voltage	4.75	5.25	V
V _{IH}	High-Level Input Voltage	2.0		V
V _{IL}	Low-Level Input Voltage		0.8	V
I _{IK}	Input Clamp Current		-18	mA
I _{OH}	High-Level Output Current		-1.0	mA
I _{OL}	Low-Level Output Current		20	mA
PW*	Pulse Width of Total Delay	40		%
d*	Duty Cycle		40	%
T _A	Operating Free-Air Temperature	-55	+125	°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
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

Package Dimensions



DSD93XX Rev. A 2/5/96

QAF-CS01 Rev. B 8/25/94

Unless Otherwise Noted Dimensions in Inches

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



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