

8 Pin SIL 5 Tap 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
1.0 ± 0.5	*4 ± 0.5	EPA600-4	15	75	EPA600-75
1.5 ± 0.5	*6 ± 0.5	EPA600-6	20	100	EPA600-100
2.0 ± 1	*8 ± 1.0	EPA600-8	25	125	EPA600-125
2.5 ± 1	*10	EPA600-10	30	150	EPA600-150
3.0 ± 1	*12	EPA600-12	35	175	EPA600-175
4.0 ± 1.5	*16	EPA600-16	40	200	EPA600-200
5.0	*20	EPA600-20	50	250	EPA600-250
6.0	30	EPA600-30	60	300	EPA600-300
7.0	35	EPA600-35	70	350	EPA600-350
8.0	40	EPA600-40	80	400	EPA600-400
9.0	45	EPA600-45	90	450	EPA600-450
10.0	50	EPA600-50	100	500	EPA600-500
12.0	60	EPA600-60			

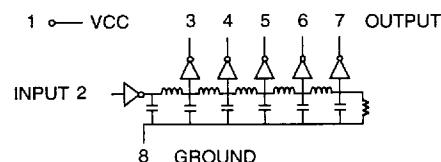
†Whichever is greater. Delay times referenced from input to leading edges at 25°C, 5.0V, with no load.

*Delay times referenced from 1st tap

1st tap is the inherent delay: approx. 7 nS

DC Electrical Characteristics			Min	Max	Unit
Parameter	Test Conditions				
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 _{COH}	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

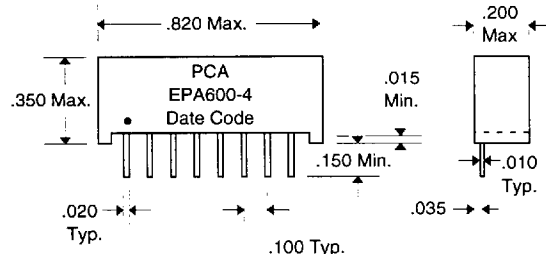


Recommended Operating Conditions		Min	Max	Unit
V _{CC}	Supply Voltage	4.75	5.25	V
V _{IH}	High-Level Input Voltage	2.0		V
V _{IL}	Low-Level Input Voltage		0.8	V
I _{IK}	Input Clamp Current		-18	mA
I _{OH}	High-Level Output Current		-1.0	mA
I _{OL}	Low-Level Output Current		20	mA
PW*	Pulse Width of Total 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



DSA600 Rev. A 2/5/96

6852109 0000591 904

QAF-CS01 Rev. B 8/25/94

Unless Otherwise Noted Dimensions in Inches

Tolerances:

Fractional = ± 1/32

32

.XX = ± .030 .XXX = ± .010



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