

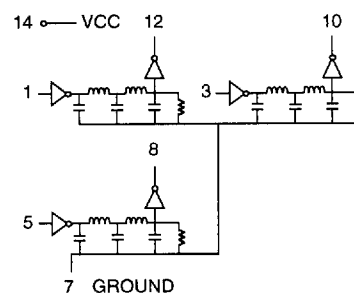
14 Pin DIP Triple TTL High Speed Delay Line

DELAY TIME ±5% or 2nS†	PART NUMBER	DELAY TIME ±5% or 2nS†	PART NUMBER	DELAY TIME ±5% or 2nS†	PART NUMBER
5	EPA313-5	19	EPA313-19	65	EPA313-65
6	EPA313-6	20	EPA313-20	70	EPA313-70
7	EPA313-7	21	EPA313-21	75	EPA313-75
8	EPA313-8	22	EPA313-22	80	EPA313-80
9	EPA313-9	23	EPA313-23	85	EPA313-85
10	EPA313-10	24	EPA313-24	90	EPA313-90
11	EPA313-11	25	EPA313-25	95	EPA313-95
12	EPA313-12	30	EPA313-30	100	EPA313-100
13	EPA313-13	35	EPA313-35	125	EPA313-125
14	EPA313-14	40	EPA313-40	150	EPA313-150
15	EPA313-15	45	EPA313-45	175	EPA313-175
16	EPA313-16	50	EPA313-50	200	EPA313-200
17	EPA313-17	55	EPA313-55	225	EPA313-225
18	EPA313-18	60	EPA313-60	250	EPA313-250

†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
VOH	High-Level Output Voltage	VCC = min. VIL = max. IOH = max		2.7		V
VOL	Low-Level Output Voltage	VCC = min. VIH = min. IOL = max			0.5	V
VIK	Input Clamp Voltage	VCC = min. II = IIK			-1.2V	V
IIH	High-Level Input Current	VCC = max. VIN = 2.7V			50	µA
		VCC = max. VIN = 5.25V			1.0	mA
II L	Low-Level Input Current	VCC = max. VIN = 0.5V			-2	mA
IOS	Short Circuit Output Current	VCC = max. VOUT = 0.		-40	-100	mA
		(One output at a time)				
ICCH	High-Level Supply Current	VCC = max. VIN = OPEN			115	mA
ICCL	Low-Level Supply Current	VCC = max. VIN = 0			115	mA
TRO	Output Rise Time	Td ≤ 500 nS (0.75 to 2.4 Volts)			4	nS
NH	Fanout High-Level Output	VCC = max. VOH = 2.7V			20 TTL LOAD	
NL	Fanout Low-Level Output	VCC = max. VOL = 0.5V			10 TTL LOAD	

Schematic

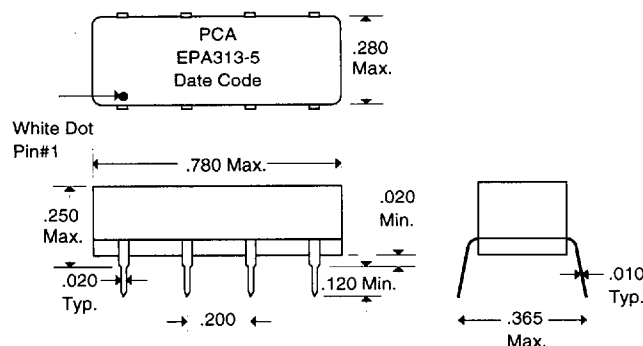


Recommended Operating Conditions		Min	Max	Unit
VCC	Supply Voltage	4.75	5.25	V
VIH	High-Level Input Voltage	2.0		V
VIL	Low-Level Input Voltage		0.8	V
IIK	Input Clamp Current		-18	mA
IOH	High-Level Output Current		-1.0	mA
IOL	Low-Level Output Current		20	mA
PW*	Pulse Width of Total Delay	40		%
d*	Duty Cycle		40	%
TA	Operating Free-Air Temperature	0	+70	°C

*These two values are inter-dependent.

Input Pulse Test Conditions @ 25° C			Unit
EIN	Pulse Input Voltage	3.2	Volts
PW	Pulse Width % of Total Delay	110	%
TRI	Pulse Rise Time (0.75 - 2.4 Volts)	2.0	nS
PRR	Pulse Repetition Rate @ Td ≤ 200 nS	1.0	MHz
	Pulse Repetition Rate @ Td > 200 nS	100	KHz
VCC	Supply Voltage	5.0	Volts

Package Dimensions



DSA313 Rev. A 2/5/96

QAF-CSO1 Rev. B 8/25/94

Unless Otherwise Noted Dimensions in Inches

Tolerances:

Fractional = ± 1/32

10 .XX = ± .030 .XXX = ± .010



6852109 0000569 468

16799 SCHOENBORN ST.
NORTH HILLS, CA 91343
TEL: (818) 892-0761
FAX: (818) 894-5791