

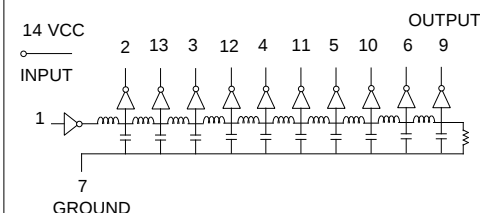
14 Pin DIP 10 Tap TTL Compatible Active Delay Lines

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
5	50	EPA619-50	44	440	EPA619-440
6	60	EPA619-60	45	450	EPA619-450
7.5	75	EPA619-75	47	470	EPA619-470
10	100	EPA619-100	50	500	EPA619-500
12.5	125	EPA619-125	55	550	EPA619-550
15	150	EPA619-150	60	600	EPA619-600
17.5	175	EPA619-175	65	650	EPA619-650
20	200	EPA619-200	70	700	EPA619-700
22.5	225	EPA619-225	75	750	EPA619-750
25	250	EPA619-250	80	800	EPA619-800
30	300	EPA619-300	85	850	EPA619-850
35	350	EPA619-350	90	900	EPA619-900
40	400	EPA619-400	95	950	EPA619-950
42	420	EPA619-420	100	1000	EPA619-1000

†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	
VOH	High-Level Output Voltage	VCC = min. VIL = max. IOH = max	2.7	0.5	V
VOL	Low-Level Output Voltage	VCC = min. VIH = min. IOL = max		-1.2V	V
VIK	Input Clamp Voltage	VCC = min. II = IIK		50	µA
IIH	High-Level Input Current	VCC = max. VIN = 2.7V		1.0	mA
		VCC = max. VIN = 5.25V		-2	mA
IIL	Low-Level Input Current	VCC = max. VIN = 0.5V		-40	mA
IOS	Short Circuit Output Current	VCC = max. VOUT = 0. (One output at a time)		-100	mA
ICCH	High-Level Supply Current	VCC = max. VIN = OPEN		150	mA
ICCL	Low-Level Supply Current	VCC = max. VIN = 0		150	mA
TRO	Output Rise Time	Td ≤ 500 nS (0.75 to 2.4 Volts)		4	nS
		Td > 500 nS		5	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

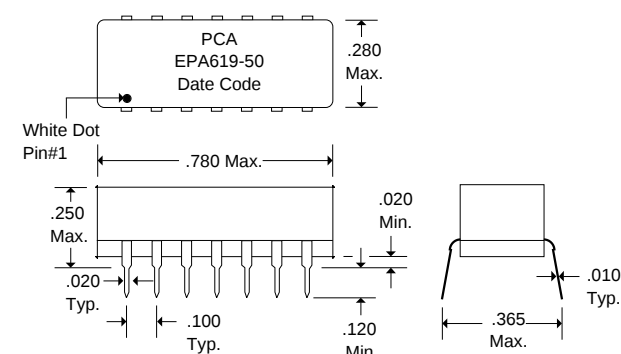


Recommended Operating Conditions		Min	Max	Unit
VCC	Supply Voltage	4.75	5.25	V
VIH	High-Level Input Voltage	2.0		V
VIL	Low-Level Input Voltage		0.8	V
IIK	Input Clamp Current		-18	mA
IOH	High-Level Output Current		-1.0	mA
IOL	Low-Level Output Current		20	mA
PW*	Pulse Width of Total Delay	40		%
d*	Duty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



DSA619 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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