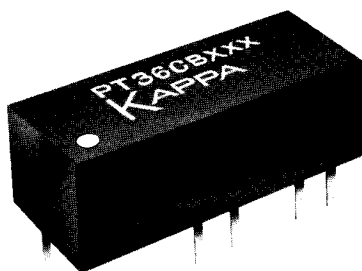


3-BIT PROGRAMMABLE DELAY LINE



- Inherent Delay: 7 ns $\pm$ 1 ns
- 16-Pin DIL package
- Total Delay Tolerance: $\pm$ 5% or $\pm$ 1 ns, WIG
- TTL Schottky Interfaced

V _{CC}	Supply Voltage	4.75	5.00	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
T _A	Operating Free-Air Temperature	0	+25	+70	°C

V_{OH}	High-Level Output Voltage	$V_{CC} = \min, V_{IH} = \max, I_{OH} = \max$	2.7	3.4		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	$V_{CC} = \max, V_{OUT} = 0,$ one output at a time	-40		-100	mA
I_{CCH}	High-Level Supply Current	$V_{CC} = \max, V_{IN} = OPEN$			90	mA
I_{CCL}	Low-Level Supply Current	$V_{CC} = \max, V_{IN} = 0$			115	mA
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

E _{IN}	Pulse Voltage	3.1	3.2	3.3	V
T _{RI}	Pulse Rise-Time			2.0	ns
T _W	Pulse Width, of Total Delay	50	100		%
d	Duty Cycle		40	50	%

Enable	Address (Bit No.)			Delay Out
	3	2	1	
L	L	L	L	T ₀
L	L	L	H	T ₁
L	L	H	L	T ₂
L	L	H	H	T ₃
L	H	L	L	T ₄
L	H	L	H	T ₅
L	H	H	L	T ₆
L	H	H	H	T ₇
H	X	X	X	L

Part ⁽²⁾ Number	Incremental Delay Per Step ⁽³⁾	Total Delay ⁽¹⁾ Change
PT36CB010	1 ns ± .4 ns	7 ns
PT36CB020	2 ns ± .4 ns	14 ns
PT36CB030	3 ns ± .5 ns	21 ns
PT36CB050	5 ns ± .6 ns	35 ns
PT36CB100	10 ns ±1.0 ns	70 ns
PT36CB150	15 ns ±1.3 ns	105 ns
PT36CB200	20 ns ±1.5 ns	140 ns
PT36CB400	40 ns ±2.0 ns	280 ns
PT36CB500	50 ns ±2.5 ns	350 ns

PT36CB010
KAPPA
(DATE CODE)

.400 (10.1) MAX

.800 (20.4) MAX

.010 (.254)
.025 (.635)

.150 ± .030 (3.8 ± .8)

.018 (.456) TYP

.050 (1.27) TYP

.250 (6.35) TYP

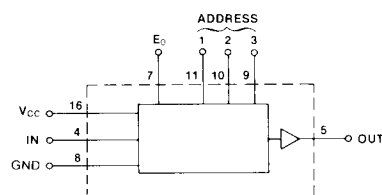
.150 (3.8) TYP

.012 (.304) TYP

.350 (8.85) TYP

.150 (3.8) TYP

4 5 7 8 11 10 9 16



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