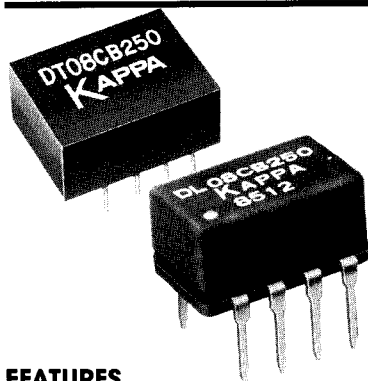


SERIES DL08CB/DT08CB TTL SCHOTTKY

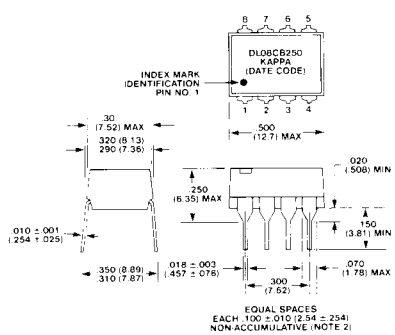
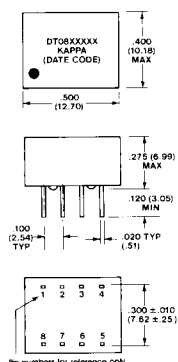
5-TAP TTL DELAY LINE (8-PIN)



FEATURES

- TTL Schottky Interfaced
- 8-pin package
- 5 equally-spaced taps
- Total delays from 25-1000 ns

MARKINGS AND DIMENSIONS, in (mm)



RECOMMENDED OPERATING CONDITIONS

	MIN	TYP	MAX	UNIT
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

DC ELECTRICAL CHARACTERISTICS

TEST CONDITIONS

		2.7	3.4		UNIT
V _{OH} High-Level Output Voltage	V _{CC} = min, V _{IH} = min, I _{OH} = max			0.5	V
V _{OL} Low-Level Output Voltage	V _{CC} = min, V _{IL} = max, I _{OL} = max			-1.2	V
V _{IK} Input Clamp Voltage	V _{CC} = min, I _I = I _{IK}			50	μA
I _{IH} High-Level Input Current	V _{CC} = max, V _{IN} = 2.7V			1.0	mA
	V _{CC} = max, V _{IN} = 5.25V			-2	mA
I _{IL} Low-Level Input Current	V _{CC} = max, V _{IN} = 0.5V			-100	mA
I _{OS} Short Circuit Output Current	V _{CC} = max, V _{OUT} = 0, one output at a time	-40			mA
I _{CCH} High-Level Supply Current	V _{CC} = max, V _{IN} = OPEN		30	45	mA
I _{CCL} Low-Level Supply Current	V _{CC} = max, V _{IN} = 0		65	75	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

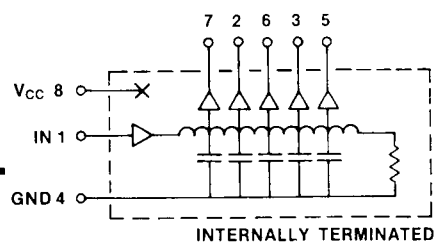
AC ELECTRICAL CHARACTERISTICS

		-5		+5	%
T _{PLH} Low-to-High Level Delay Time	V _{CC} = typ, T _A = typ, E _{IN} = typ T _W = typ, d = typ ⁽¹⁾⁽²⁾⁽⁶⁾				
T _{PCV} V _{CC} Coefficient of Delay	V _{CC} = min-to-max, T _A = typ E _{IN} = typ, T _W = typ, d = typ ⁽¹⁾⁽²⁾⁽⁴⁾⁽⁶⁾		-0.16		%/mV
T _{RO} Output Risetime	V _{CC} = typ, T _A = typ, E _{IN} = typ T _W = typ, d = typ ⁽⁵⁾⁽⁶⁾		3	4	ns

INPUT PULSE TEST CONDITIONS

		3.1	3.2	3.3	V
E _{IN} Pulse Voltage					
T _{RI} Pulse Rise-Time				2.0	ns
T _W Pulse Width, of Total Delay		40	100		%
d Duty Cycle			33.3	50	%

PART NUMBER ⁽⁷⁾	Total Delay (ns) ^{(1) (2)}	Tap Delay (ns) ^{(1) (2)}	Notes:
DL08/DT08CB250	25	5	1. Delays measured at 1.5V level on leading edge only. 2. Delay tolerances: ± 5% or ± 2 ns, whichever is greater, referenced from input and guaranteed only under the following test conditions: V _{CC} = T _{yp} , T _A = T _{yp} , E _{IN} = T _{yp} , T _{RI} = max, T _W = T _{yp} , P _{RR} = 1MHz (or d/t _w , whichever is less), R _L = 1 megohm and CL = 2pf. 3. Temperature coefficient of delay will vary, depending upon total delay, according to the formula: T _{PTA} = (100 + (25,000/T _{PLH})). 4. Delay will vary about 4% for every 5% change in supply voltage. 5. Risetime measured from 0.75V to 2.4V level. 6. Measured with no loads on taps. 7. Other delays also available upon request.
DL08/DT08CB500	50	10	
DL08/DT08CB750	75	15	
DL08/DT08CB101	100	20	
DL08/DT08CB254	250	50	
DL08/DT08CB501	500	100	



U.S.A. Factory Direct: 1443 Pinewood Street, Rahway, NJ 07065, Phone (908) 396-9400, Toll Free 800-223-0603