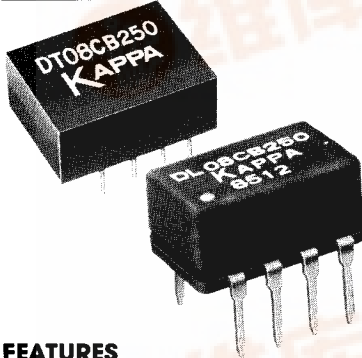


SERIES DL08CB/DT08CB TTL SCHOTTKY

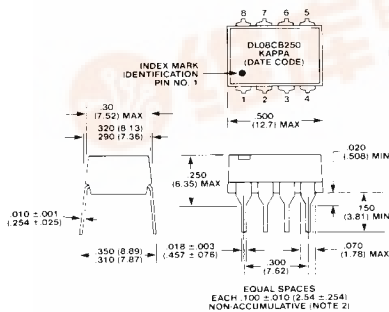
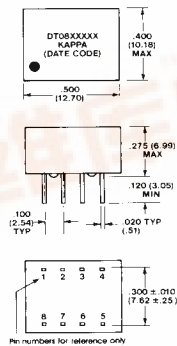
5-TAP TTL DELAY LINE (8-PIN)



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

V _{OH} High-Level Output Voltage	V _{CC} = min, V _{IH} = min, I _{OH} = max	2.7	3.4		V
V _{OL} Low-Level Output Voltage	V _{CC} = min, V _{IL} = max, 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 _{CC} High-Level Supply Current	V _{CC} = max, V _{IN} = OPEN		30	45	mA
I _{CL} 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

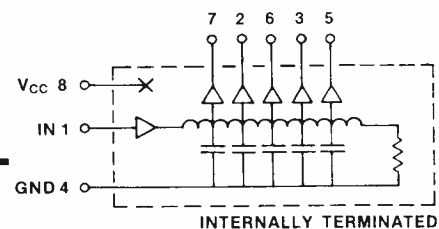
AC ELECTRICAL CHARACTERISTICS

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)	-5		+5	%
T _{PCC} 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)		-0.016		%/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

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

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.
DL08/DT08CB500	50	10	2. Delay tolerances: ± 5% or ± 2 ns, whichever is greater, referenced from input and guaranteed only under the following test conditions: V _{CC} = Typ, T _A = Typ, E _{IN} = Typ, T _{RI} = max, T _W = Typ, P _{RR} = 1MHz (or d/tw, whichever is less), RL = 1 megohm and CL = 2pf.
DL08/DT08CB750	75	15	3. Temperature coefficient of delay will vary, depending upon total delay, according to the formula: T _{PTA} = (100 + (25,000/T _{PLH})).
DL08/DT08CB101	100	20	4. Delay will vary about 4% for every 5% change in supply voltage.
DL08/DT08CB251	250	50	5. Risetime measured from 0.75V to 2.4V level.
DL08/DT08CB501	500	100	6. Measured with no loads on taps.
			7. Other delays also available upon request.



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