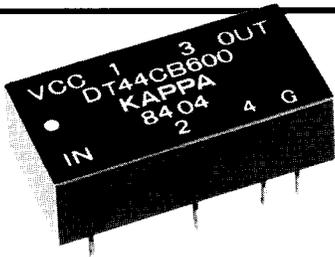


SERIES DL44/DT44 TTL SCHOTTKY (14-PIN) • 4 INDEPENDENT DELAYS

QUADRUPLE DIGITAL DELAY LINE



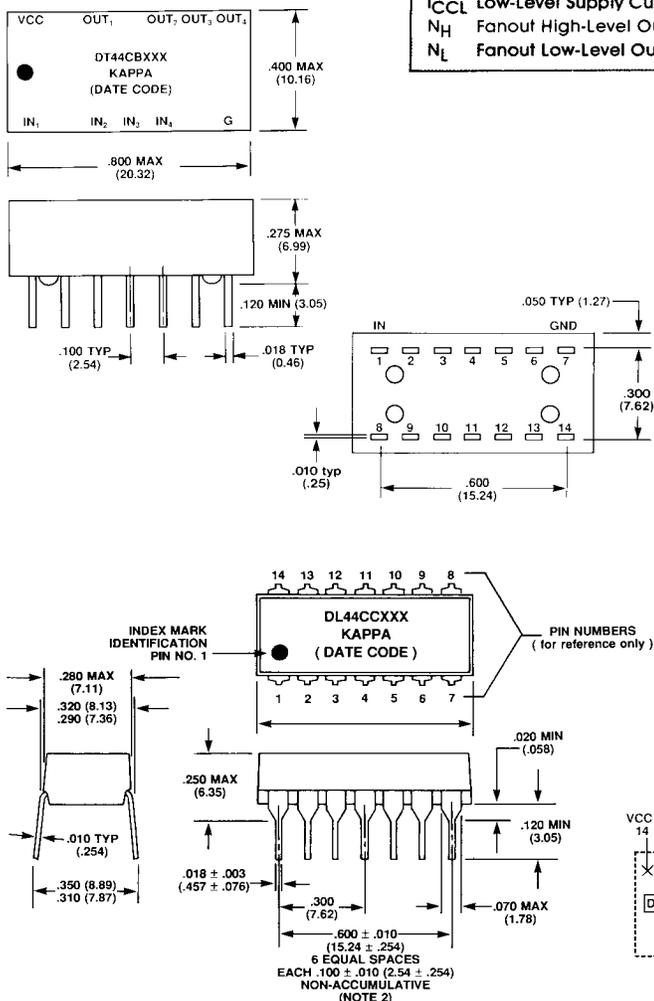
RECOMMENDED OPERATING CONDITIONS

	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

FEATURES

- TTL Schottky interfaced
- 14-Pin DIL Package
- 4 independent equal delays
- Rise Time 4 ns max
- Delays from 5-50 ns

MARKINGS AND DIMENSIONS, in (mm)



DC ELECTRICAL CHARACTERISTICS

TEST CONDITIONS

Parameter	Test Conditions	MIN	TYP	MAX	UNIT
V _{OH} High-Level Output Voltage	V _{CC} = min, V _{IL} = 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		60	75	mA
I _{CCL} Low-Level Supply Current	V _{CC} = max, V _{IN} = 0		120	150	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

INPUT PULSE TEST CONDITIONS

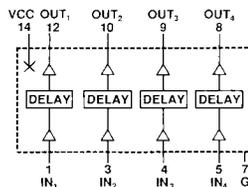
Parameter	MIN	TYP	MAX	UNIT
E _{IN} Pulse Voltage	3.1	3.2	3.3	V
T _{RI} Pulse Rise Time			2.0	ns
T _W Pulse Width of Total Delay	100			%
d Duty Cycle		33.3	50	%

PART NUMBER	Delay Time (ns)
DT44CB050	5
DT44CB100	10
DT44CB150	15
DT44CB200	20
DT44CB250	25
DT44CB300	30
DT44CB350	35
DT44CB400	40
DT44CB450	45
DT44CB500	50

PART NUMBER	Delay Time (ns)
DL44CB050	5
DL44CB100	10
DL44CB150	15
DL44CB200	20
DL44CB250	25
DL44CB300	30
DL44CB350	35
DL44CB400	40
DL44CB450	45
DL44CB500	50

Notes:

1. Delay measured at 1.5V level on leading edge only.
2. Delay tolerances: ±5% or ±2 ns, whichever is greater.
3. Rise Time measured from 0.75V to 2.4V level.
4. Measured with no loads on output.
5. Other delays also available upon request.



KAPPA[®]

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