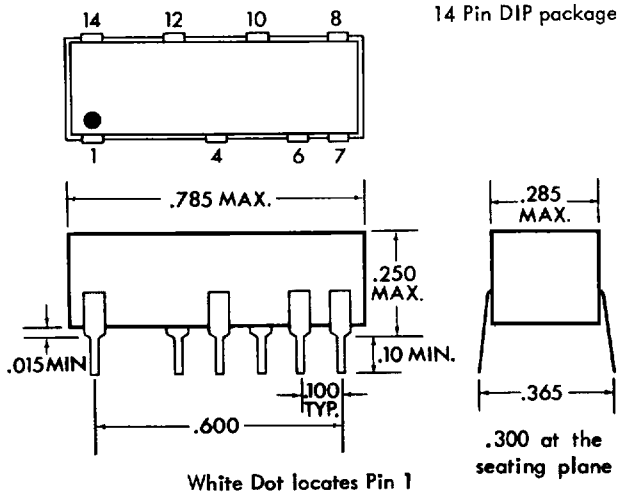
# DIGITAL DELAY LINES
# HIGH SPEED CMOS
## 5 TAPS • 14 PIN PACKAGE

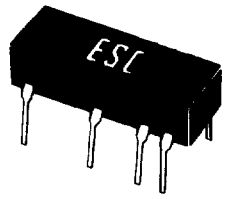
**SERIES 14CMTD**

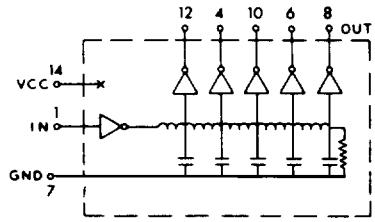
This series of digital hybrid delay lines are contained in a 14 Pin DIP package using High Speed CMOS series circuits.

**NOTE•NEW! FAX NO. 201-947-0406**




White Dot locates Pin 1




Intermediate delay values available upon request.

| Model No. | Delay (ns) | Delay/ Tap (ns) |
|---|---|---|
| 14CMTD32 | 32 | *5 |
| 14CMTD36 | 36 | *6 |
| **14CMTD40** | **40** | ***7** |
| 14CMTD44 | 44 | *8 |
| 14CMTD48 | 48 | *9 |
| **14CMTD52** | **52** | ***10** |
| 14CMTD60 | 60 | 12 |
| 14CMTD75 | 75 | 15 |
| **14CMTD100** | **100** | **20** |
| 14CMTD125 | 125 | 25 |
| 14CMTD150 | 150 | 30 |
| **14CMTD175** | **175** | **35** |
| 14CMTD200 | 200 | 40 |
| 14CMTD250 | 250 | 50 |
| **14CMTD300** | **300** | **60** |
| 14CMTD350 | 350 | 70 |
| 14CMTD400 | 400 | 80 |
| **14CMTD420** | **420** | **84** |
| 14CMTD440 | 440 | 88 |
| 14CMTD450 | 450 | 90 |
| **14CMTD500** | **500** | **100** |

| DC PARAMETERS | | LIMITS | |
|---|---|---|---|
| | | Min. | Max. |
| Voh | Vcc=min Ioh =4.0mA | 4.0V | - |
| Vol | Vcc=min Iol =4.0mA | - | .3V |
| Vih | Vcc=min-max | 2.0V | - |
| Vil | Vcc=min-max | - | .8V |
| IL | Vcc=max | - | +/-1.0µA |
| Icc | Vcc=max outputs low | - | 15mA |
| max load | Vcc=max Voh=4.0V | 10 LSTTL Loads | |

**SPECIFICATIONS:**

- Supply voltage: 5.0VDC ±10%
- Delay tolerances: ±2ns or ±5% wig
- Rise Time: 5ns max
- Minimum Pulse Width: 40% of Total Delay
- Maximum Duty Cycle: 50%
- Five equally spaced taps
- ** Operating temp. range: 0°C to + 70°C
- Terminals: Electro tin plated alloy 42 .020w x .010th

**TEST CONDITIONS:**

- Vcc=5.0VDC, Temp. 25° ±5°C
- Time delay measured at the 1.5V level
- Rise time measured from .75V to 2.4V
- Input test pulse:
  - Pulse voltage: 3.0V
  - Pulse rise time: 2ns
  - Pulse width: 1.5 x max Td
  - Pulse spacing: 5 x max Td

* Residual Delay first tap -12ns, following taps are referenced to pin 12 (first tap).
** Also available for -55°C to + 125°C operation. The dimensions will change to .82L X .40W X .36H.

Specify Series 14CMTC when ordering.



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