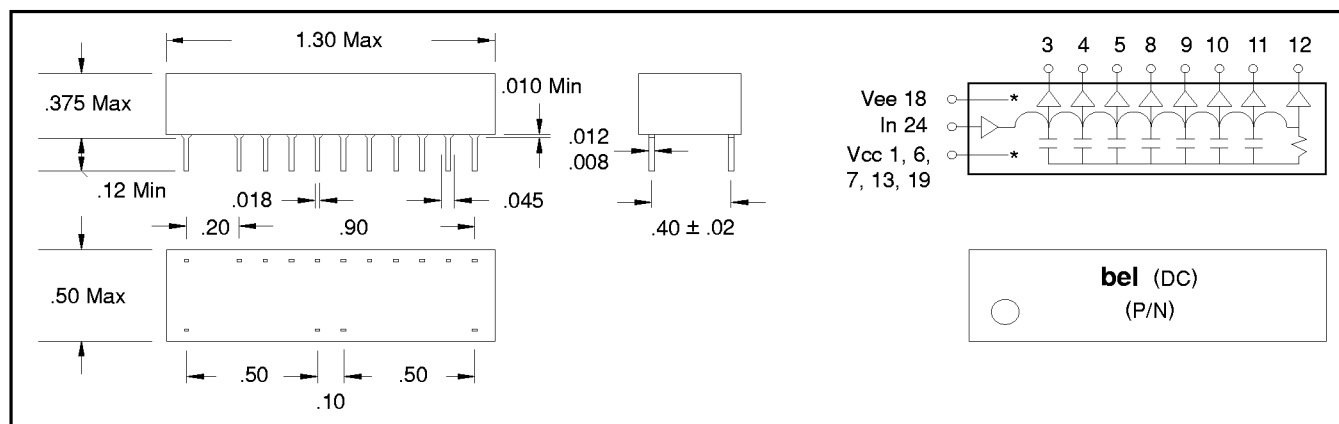


# 8 TAP LEADING EDGE CONTROL 100K ECL DELAY MODULES

**Cat 42-R0**


## Part Numbers

| Thru-Hole    | Total Delay | Delay per Tap | Rise Time |
|--------------|-------------|---------------|-----------|
| 0461-0016-01 | 16 ns       | 2.0 ns        | 3 ns      |
| 0461-0020-01 | 20 ns       | 2.5 ns        | 3 ns      |
| 0461-0024-01 | 24 ns       | 3.0 ns        | 3 ns      |
| 0461-0028-01 | 28 ns       | 3.5 ns        | 3 ns      |
| 0461-0032-01 | 32 ns       | 4.0 ns        | 3 ns      |
| 0461-0036-01 | 36 ns       | 4.5 ns        | 3 ns      |
| 0461-0040-01 | 40 ns       | 5.0 ns        | 3 ns      |
| 0461-0044-01 | 44 ns       | 5.5 ns        | 3 ns      |
| 0461-0048-01 | 48 ns       | 6.0 ns        | 3 ns      |
| 0461-0052-01 | 52 ns       | 6.5 ns        | 3 ns      |
| 0461-0056-01 | 56 ns       | 7.0 ns        | 3 ns      |
| 0461-0060-01 | 60 ns       | 7.5 ns        | 4 ns      |
| 0461-0064-01 | 64 ns       | 8.0 ns        | 4 ns      |
| 0461-0068-01 | 68 ns       | 8.5 ns        | 4 ns      |
| 0461-0072-01 | 72 ns       | 9.0 ns        | 4 ns      |
| 0461-0076-01 | 76 ns       | 9.5 ns        | 4 ns      |
| 0461-0080-01 | 80 ns       | 10.0 ns       | 4 ns      |

## Test Conditions @ 25°C

|      |                        |                     |
|------|------------------------|---------------------|
| Ein  | Pulse Voltage, Logic 1 | -0.9 Volts          |
|      | Pulse Voltage, Logic 0 | -1.7 Volts          |
| Trin | Rise Time              | 1.0 ns (20%-80%)    |
| PW   | Pulse Width            | Total Delay + 10 ns |
| PP   | Pulse Period           | 4 x Pulse Width     |
| Vee  | Supply Voltage         | -5.0 Volts          |

## Electrical Characteristics

|     | Min.            | Max.  | Units |
|-----|-----------------|-------|-------|
| Vee | -4.2            | -5.7  | V     |
| Vih | -1165           | -870  | mV    |
| Vil | -1830           | -1475 | mV    |
| Voh | -1025           | -870  | mV    |
| Vol | -1830           | -1620 | mV    |
| lih |                 | 240   | ua    |
| lil | 0.50            |       | ua    |
| Ta  | 0°              | 70°   | C     |
| PW  | 40              |       | %     |
| d   |                 | 50    | %     |
| Tc  | 300 PPM/°C Typ. |       |       |

## Tolerances

Input to Taps  $\pm 1$  ns or 4% , Whichever is Greater  
Delays measured @ 50% levels on Leading Edge only  
with outputs terminated in 50 ohm  $\pm 1\%$  to -2 V  
Rise Times measured from 20% to 80% levels

## Notes

Epoxy encapsulated  
Compatible with 100K ECL circuits  
Performance warranty is limited to specified parameters listed

## Drive Capabilities

Fan-out capabilities 70 ECL Loads Max.

## Other Delays and Tolerances Available Consult Sales

*Specifications subject to change without notice.*

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