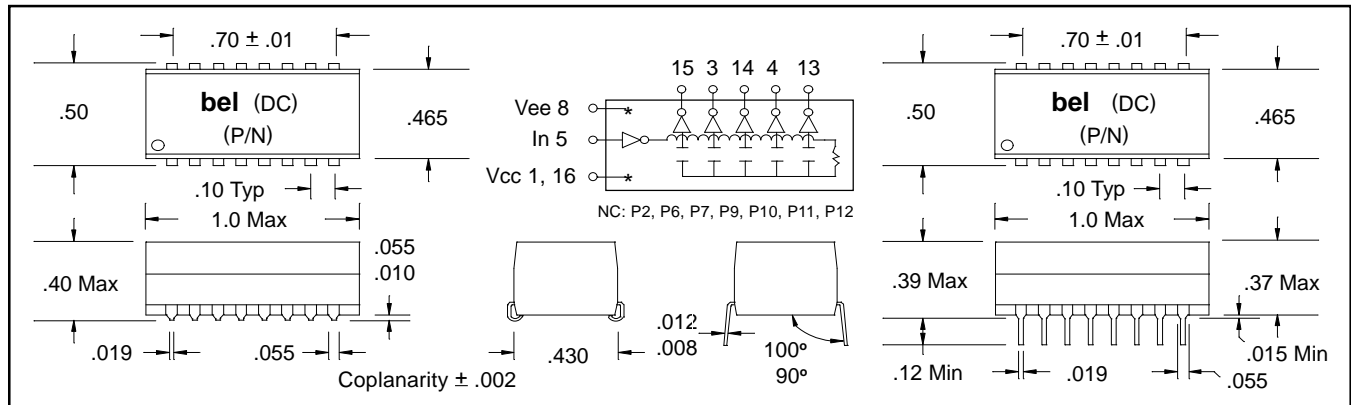


5 TAP LEADING EDGE CONTROL 10KH ECL DELAY MODULES

Cat 41-R0



Part Numbers

| SMD | Thru-Hole | Total Delay | Tap Delay Every | Rise Time |
|--------------|--------------|-------------|-----------------|-----------|
| S459-0006-02 | A459-0006-02 | 6 ns | * 1 ns | 2 ns |
| S459-0010-02 | A459-0010-02 | 10 ns | 2 ns | 2 ns |
| S459-0015-02 | A459-0015-02 | 15 ns | 3 ns | 2 ns |
| S459-0020-02 | A459-0020-02 | 20 ns | 4 ns | 2 ns |
| S459-0025-02 | A459-0025-02 | 25 ns | 5 ns | 3 ns |
| S459-0030-02 | A459-0030-02 | 30 ns | 6 ns | 3 ns |
| S459-0035-02 | A459-0035-02 | 35 ns | 7 ns | 3 ns |
| S459-0040-02 | A459-0040-02 | 40 ns | 8 ns | 3 ns |
| S459-0045-02 | A459-0045-02 | 45 ns | 9 ns | 3 ns |
| S459-0050-02 | A459-0050-02 | 50 ns | 10 ns | 3 ns |
| S459-0075-02 | A459-0075-02 | 75 ns | 15 ns | 4 ns |
| S459-0100-02 | A459-0100-02 | 100 ns | 20 ns | 6 ns |
| S459-0125-02 | A459-0125-02 | 125 ns | 25 ns | 6 ns |

Test Conditions @ 25°C

| | | |
|------|------------------------|---------------------|
| Ein | Pulse Voltage, Logic 1 | -0.9 Volts |
| | Pulse voltage, Logic 0 | -1.8 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 | -5.2 Volts |

Electrical Characteristics

| | Min. | Max. | Units |
|-----|------------|-------|-------|
| Vee | -4.94 | -5.46 | V |
| Vih | -1.13 | | V |
| Vil | | -1.48 | V |
| Voh | -0.98 | | V |
| Vol | | -1.63 | V |
| lih | | 310 | ua |
| lil | 0.5 | | ua |
| Ta | 0° | 75° | C |
| PW | 40 | | % |
| d | | 50 | % |
| Tc | 300 PPM/°C | | |

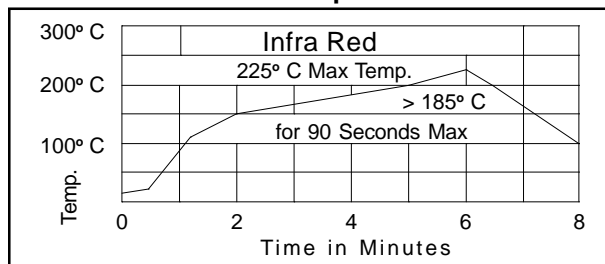
Tolerances

Input to Taps ± 1 ns or 3% , Whichever is Greater
Delays measured @ 50% levels on Leading Edge only
with Outputs Terminated with 50 Ohms $\pm 1\%$ to - 2 V
Rise and Fall Times measured from 20% to 80% levels
* First Tap Delay is 2 ns from P5 to P15

Notes

Transfer molded for better reliability
Compatible with ECL 10K & 10KH circuits
Terminals: Electro-Tin plate phosphor bronze
Performance warranty is limited to specified parameters listed
SMD - Tape & Reel available:
44mm Wide x 24mm Pitch, 170 pieces per 13" reel

Recommended Temperature Profile



Other Delays and Tolerances Available Consult Sales

Specifications subject to change without notice.

Corporate Office

Bel Fuse Inc.
198 Van Vorst Street, Jersey City, NJ 07302-4496
Tel: 201-432-0463
Fax: 201-432-9542
E-Mail: BelFuse@belfuse.com
Internet: <http://www.belfuse.com>

Far East Office

Bel Fuse Ltd.
8F/8 Luk Hop Street
San Po Kong
Kowloon, Hong Kong
Tel: 852-2328-5515
Fax: 852-2352-3706

European Office

Bel Fuse Europe Ltd.
Preston Technology Management Centre
Marsh Lane, Preston PR1 8UD
Lancashire, U.K.
Tel: 44-1772-556601
Fax: 44-1772-888366