

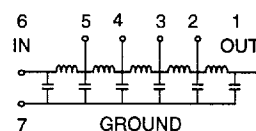
# 7 Pin Single-in-Line Package Passive Delay Lines

| Zo<br>OHMS<br>±10% | DELAY<br>nS ±5%<br>or<br>±2 nS† | TAP<br>DELAYS<br>±5% or<br>±2 nS† | RISE<br>TIME<br>nS<br>Max. | DCR<br>OHMS<br>Max. | PCA<br>PART<br>NUMBER | Zo<br>OHMS<br>±10% | DELAY<br>nS ±5%<br>or<br>±2 nS† | TAP<br>DELAYS<br>±5% or<br>±2 nS† | RISE<br>TIME<br>nS<br>Max. | DCR<br>OHMS<br>Max. | PCA<br>PART<br>NUMBER |
|--------------------|---------------------------------|-----------------------------------|----------------------------|---------------------|-----------------------|--------------------|---------------------------------|-----------------------------------|----------------------------|---------------------|-----------------------|
| 50                 | 5                               | 1                                 | 2                          | 0.3                 | EPA572-5A             | 100                | 5                               | 1                                 | 2                          | 0.5                 | EPA572-5B             |
| 50                 | 10                              | 2                                 | 3                          | 0.5                 | EPA572-10A            | 100                | 10                              | 2                                 | 3.3                        | 1.0                 | EPA572-10B            |
| 50                 | 20                              | 4                                 | 6                          | 0.8                 | EPA572-20A            | 100                | 20                              | 4                                 | 6                          | 1.5                 | EPA572-20B            |
| 50                 | 30                              | 6                                 | 9                          | 1.2                 | EPA572-30A            | 100                | 30                              | 6                                 | 9                          | 2.5                 | EPA572-30B            |
| 50                 | 40                              | 8                                 | 12                         | 1.8                 | EPA572-40A            | 100                | 40                              | 8                                 | 11                         | 4.0                 | EPA572-40B            |
| 50                 | 50                              | 10                                | 15                         | 2.3                 | EPA572-50A            | 100                | 50                              | 10                                | 14                         | 5.0                 | EPA572-50B            |
| 50                 | 60                              | 12                                | 18                         | 2.5                 | EPA572-60A            | 100                | 60                              | 12                                | 17                         | 5.5                 | EPA572-60B            |
| 50                 | 70                              | 14                                | 22                         | 3.5                 | EPA572-70A            | 100                | 70                              | 14                                | 21                         | 6.0                 | EPA572-70B            |
| 50                 | 80                              | 16                                | 24                         | 4.2                 | EPA572-80A            | 100                | 80                              | 16                                | 23                         | 6.5                 | EPA572-80B            |
| 50                 | 90                              | 18                                | 27                         | 4.5                 | EPA572-90A            | 100                | 90                              | 18                                | 25                         | 7.0                 | EPA572-90B            |
| 50                 | 100                             | 20                                | 28                         | 5.2                 | EPA572-100A           | 100                | 100                             | 20                                | 28                         | 7.5                 | EPA572-100B           |

†Whichever is greater.

| DC Electrical Characteristics    | Min | Max | Unit     |
|----------------------------------|-----|-----|----------|
| Distortion                       |     | ±10 | %        |
| Temperature Coefficient of Delay |     | 100 | PPM/°C   |
| Insulation Resistance @ 100 Vdc  | 1K  |     | Meg Ohms |
| Dielectric Strength              |     | 100 | Vdc      |

## Schematic



| Recommended Operating Conditions | Min                            | Max | Unit  |
|----------------------------------|--------------------------------|-----|-------|
| PW*                              | Pulse Width % of Total Delay   | 200 | %     |
| D*                               | Duty Cycle                     | 40  | %     |
| TA                               | Operating Free Air Temperature | 0   | 70 °C |

\*These two values are inter-dependent.

| Input Pulse Test Conditions @ 25°C |                                     |         |
|------------------------------------|-------------------------------------|---------|
| VIN                                | Pulse Input Voltage                 | 3 Volts |
| PW                                 | Pulse Width % of Total Delay        | 300 %   |
| TRI                                | Input Rise Time (10 - 90%)          | 2.0 nS  |
| PRR                                | Pulse Repetition Rate @ Td ≤ 150 nS | 1.0 MHz |
|                                    | Pulse Repetition Rate @ Td > 150 nS | 300 KHz |

## Package Dimensions

