



PASSIVE DELAY LINES, SINGLE OUTPUT
SERIES SMP01S - 4 PIN SURFACE MOUNT
SERIES P01S - 4 PIN DIP PACKAGE
SERIES S01 - 3 PIN SIP PACKAGE
SERIES P01 - 14 PIN DIP PACKAGE



- Industry's widest range — 0.1nS to 1000nS!
- Low cost, prompt delivery!
- Precision-grade internal inductor elements ensure excellent stability
- Operating temperature: 0°C to +70°C

OPTIONS

- Custom circuits available
- Non-standard delay or impedance values
- Increased operating temperature range
- Low profile package (Type P01 only)
- Tighter tolerance or temp. coefficient
- Faster rise times

Ultra-miniature Type P01S is the industry's smallest! RCD Series P01 and S01 passive (analog) delay lines are a lumped constant design per MIL-D-23859, incorporating high-performance inductors and multilayer capacitors in a molded case ensuring stable transmission, low temperature coefficient, and excellent environmental performance.

ELECTRICAL CHARACTERISTICS

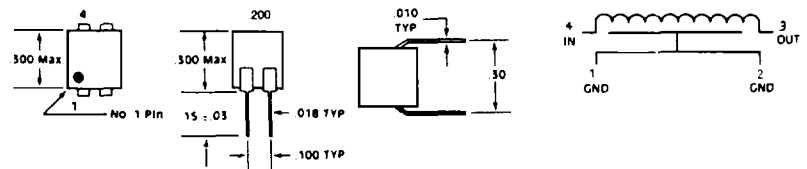
Total Delay Tol.: S01 ±5% or ±0.5nS whichever is greater
P01 ±5% or ±2nS whichever is greater
P01S/SMP01S ±20%

Temperature Coefficient: ±100ppm/°C Max.
Distortion: ±10% Max.
Dielectric Strength: 100VDC
Insulation Resistance: 1000MΩ Min.
Attenuation: S01 2% Max.
P01 10nS-300nS 10% Max., >300nS 20% Max.
P01S/SMP01S 20% Max.

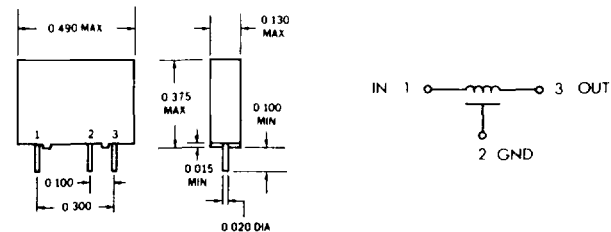
| RCD Type | Delay Time (nSec) | Rise Time Max.** (nSec) | Available Impedance Values (±10%)* |
|----------|-------------------|-------------------------|------------------------------------|
| P01S | 0.1 | 2.0 | 50Ω or 75Ω |
| P01S | 0.2 | 2.0 | 50Ω or 75Ω |
| P01S | 0.3 | 2.0 | 50Ω or 75Ω |
| P01S | 0.4 | 2.0 | 50Ω or 75Ω |
| P01S | 0.5 | 2.0 | 50Ω or 75Ω |
| P01S | 0.6 | 2.0 | 50Ω or 75Ω |
| P01S | 0.7 | 2.0 | 50Ω or 75Ω |
| P01S | 0.8 | 2.0 | 50Ω or 75Ω |
| P01S | 0.9 | 2.0 | 50Ω or 75Ω |
| P01S | 1.0 | 2.0 | 50Ω or 75Ω |
| S01 | 1.0 | 3.0 | 100Ω std., 50Ω or 200Ω avail. |
| S01 | 2.0 | 3.0 | 100Ω std., 50Ω or 200Ω avail. |
| S01 | 3.0 | 3.0 | 100Ω std., 50Ω or 200Ω avail. |
| S01 | 4.0 | 3.5 | 100Ω std., 50Ω or 200Ω avail. |
| S01 | 5.0 | 3.5 | 100Ω std., 50Ω or 200Ω avail. |
| S01 | 6.0 | 3.5 | 100Ω std., 50Ω or 200Ω avail. |
| S01 | 7.0 | 4.0 | 100Ω std., 50Ω or 200Ω avail. |
| S01 | 8.0 | 4.0 | 100Ω std., 50Ω or 200Ω avail. |
| S01 | 9.0 | 4.5 | 100Ω std., 50Ω or 200Ω avail. |
| S01 | 10.0 | 4.5 | 100Ω std., 50Ω or 200Ω avail. |
| P01 | 10 | 3.5 | 100Ω |
| P01 | 20 | 5.5 | 50Ω, 100Ω 200Ω |
| P01 | 30 | 6.5 | 50Ω, 100Ω 200Ω |
| P01 | 40 | 8 | 50Ω, 100Ω 200Ω, 300Ω |
| P01 | 50 | 10 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 60 | 12 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 75 | 15 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 100 | 20 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 120 | 24 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 150 | 30 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 180 | 36 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 200 | 40 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 220 | 44 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 250 | 50 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 300 | 60 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 375 | 75 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 500 | 100 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 600 | 120 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 750 | 150 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |
| P01 | 1000 | 200 | 50Ω, 100Ω 200Ω, 300Ω, 500Ω |

* 100Ω is the most common impedance value on S01 and P01
** Faster rise times available!

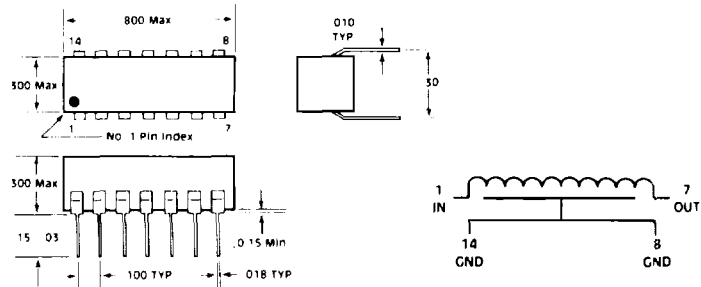
TYPE P01S 4 Pin DIP, TYPE SMP01S 4 Pin Surface Mount
(Information on P01S and SMP01S is preliminary, consult factory.)



TYPE S01



TYPE P01



TEST CONDITIONS @25°C

- 1) Pulse width at 3x total delay
- 2) Pulse input at 10V
- 3) Rise time measured at 10% to 90% points

HOW TO ORDER

RCD Type (SMP01S, P01S, S01, P01) P01
Delay Time 10nS
Impedance 100Ω
(50Ω, 100Ω, 200Ω)