



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

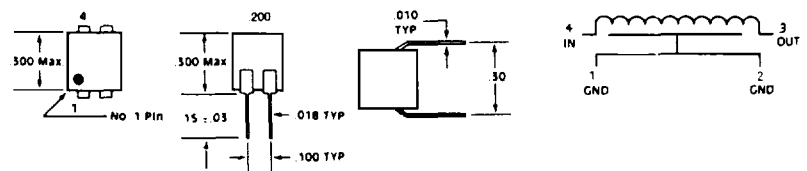
Total Delay Tol.: S01 ±5% or ±0.5nS whichever is greater
 P01 ±5% or ±2nS whichever is greater
 P01S/SMP01S ±20%

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.

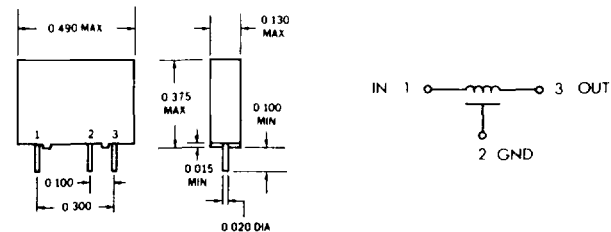
RCD Type	Delay Time (nSec)	Rise Time Max.** (nSec)	Available Impedance Values (±10%)*
P01S	0.1	2.0	50Ω or 75Ω
P01S	0.2	2.0	50Ω or 75Ω
P01S	0.3	2.0	50Ω or 75Ω
P01S	0.4	2.0	50Ω or 75Ω
P01S	0.5	2.0	50Ω or 75Ω
P01S	0.6	2.0	50Ω or 75Ω
P01S	0.7	2.0	50Ω or 75Ω
P01S	0.8	2.0	50Ω or 75Ω
P01S	0.9	2.0	50Ω or 75Ω
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!

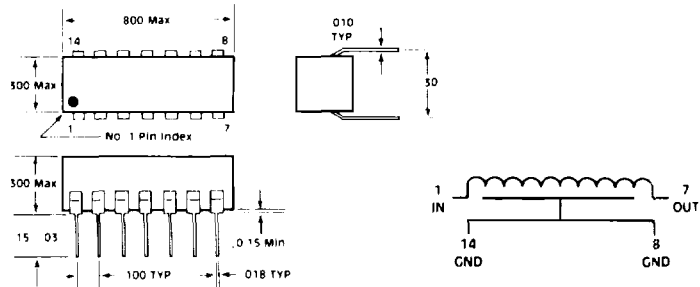
TYPE P01S 4 Pin DIP, TYPE SMP01S 4 Pin Surface Mount
 (Information on P01S and SMP01S is preliminary, consult factory.)



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)