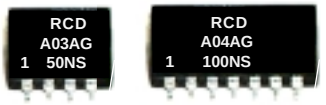
ACTIVE (DIGITAL) DELAY LINES
SINGLE, DUAL, TRIPLE, QUAD DELAYS
A0 SERIES

RoHS Term.W is Pb-free and RoHS compliant



RESISTORS•CAPACITORS•COILS•DELAY LINES

- ❒ Economical cost, prompt delivery!
- ❒ Wide range of values, 5nS to 500nS
- ❒ TTL schottky interfaced

OPTIONS

- ❒ Opt.T= trailing edge design
- ❒ Opt. F =fast TTL, H =HCMOS, C =FACT
- ❒ Opt.A = auto-insertable design
- ❒ Opt.39 = -40 to +85°C operating temp.
- ❒ Tighter tolerances, faster rise times
- ❒ Low power design
- ❒ Military screening

STANDARD DELAY TIMES

5nS, 10nS, 15nS, 20nS. 25nS, 50nS, 75nS, 100nS, 250nS, 500nS

Intermediate values available on special order.

SPECIFICATIONS

Operating Temp: 0 to 70°C
Delay Tol: ±2nS or ±5%, whichever greater
Rise Time: 4nS
Peak Soldering Temp: +230°C

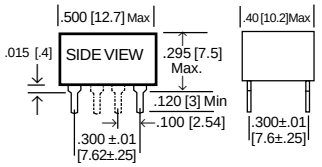
CHARACTERISTICS

RCD Type	Independent Delays	Package Style	Circuit
A01	Single	14P	A
A01S	Single	8P	B
A01AG	Single	14SM	A
A01SAG	Single	8SM	B
A02A	Dual	14P	C
A02SA	Dual	8P	D
A02AG	Dual	14SM	C
A02SAG	Dual	8SM	D
A03	Triple	14P	E
A03S	Triple	8P	F
A03AG	Triple	14SM	E
A03SAG	Triple	8SM	F
A04	Quadruple	14P	G
A04AG	Quadruple	14SM	G

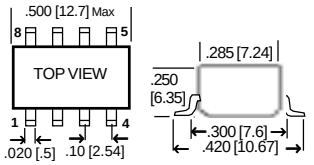
Low cost solution for multiple timing delays in a single package!

RCD's digital delay lines have been designed to provide precise fixed delays with all the necessary drive and pick-off circuitry. All inputs and outputs are schottky-type and require no additional components to achieve specified delays. Designed to meet the applicable environmental requirements of MIL-D-23859. Type A01 features a single fixed delay, type A02 features two isolated delays, A03 features three delays, and A04 features 4 delays (single delay SIP available). Application Guide available.

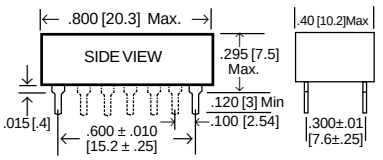
PACKAGE STYLES



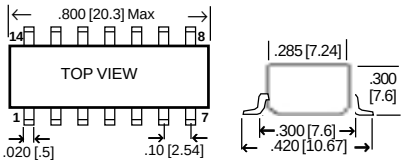
PACKAGE STYLE 8P (8-Pin DIP)



PACKAGE STYLE 8SM (8-Pin SM DIP)

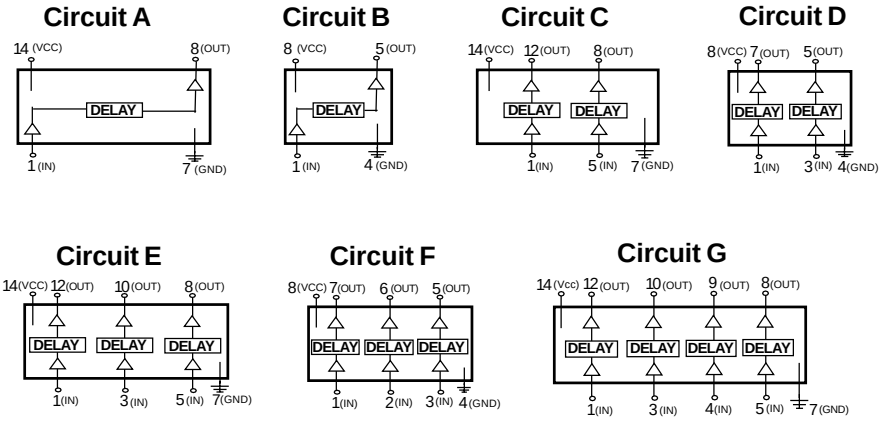


PACKAGE STYLE 14P (14-Pin DIP)



PACKAGE STYLE 14SM (14-Pin SM DIP)

CIRCUIT SCHEMATICS



TEST CONDITIONS @25°C

1.) Input test pulse voltage: 3.2V
2.) Input pulse width: 50nS or 1.2x the total delay (whichever is greater)
3.) Input rise time: 2.0nS (0.75V to 2.4V)
4.) Delay measured at 1.5V on leading edge only with no loads on output (specify opt. T for trailing edge design)
5.) Supply Voltage (Vcc): 5V
6.) Pulse spacing: 2x pulse width minimum

P/N DESIGNATION:

A01A ☐ - **100nS** - **B** **W**

Type: A01, A01S, A01AG, etc.
Options: T, H, F, C, A, 39 (leave blank if std.)
Delay Time: 5nS, 10nS, etc
Packaging: B=Bulk (Magazine tube is standard)
Termination: W= Lead-free, Q= Tin/Lead (leave blank if either is acceptable)

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