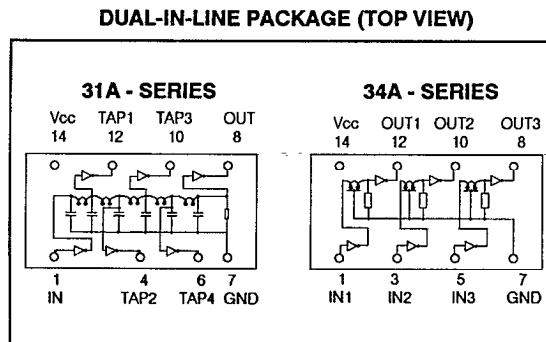


- Schottky TTL buffered
- 14 pin package
- Low profile
- TTL compatible
- Industry standard pin-outs



description

The 31A and 34A series of Digital Delay Modules are Schottky TTL buffered delay lines providing precise delay times and direct compatibility with TTL. Five equally spaced delay taps, and triple independent equal delays are each packaged in low profile 14 pin dual-in-line configurations having industry standard pin-outs. Internal termination of the delay line and compensation for propagation delays are incorporated in the design so that no additional external components are needed. These modules are particularly suitable for high density board designs.

absolute maximum ratings over operating free-air temperature range

Supply voltage V _{cc}	7V
Input voltage	5.5V
Min. pulse width as % of total delay	80%
Input pulse repetition rate PRR	3 x pulse width min.
Operating free-air temperature range	0C to 70C
Storage temperature range	-55C to 125C
Temperature coefficient of delay	± 300ppm/C
Lead temperature 1.5mm from case for 10 seconds	300C

drive capabilities

Logic 0 output	10 TTL loads per tap max. 20 TTL loads per unit max.
Logic 1 output	20 TTL loads per unit max.

[查询 "32A Series 1" 供应商](#)

5 Tap and Triple Independent 14 Pin Moulded DIP

electrical specifications over operating free-air temperature range

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
V _{IH} High-level input voltage		2			V
V _{IL} Low-level input voltage				0.8	V
V _{OH} High-level output voltage	V _{CC} = 4.75V V _{IH} = 2V, I _{OH} = -1mA	2.7	3.4		V
V _{OL} Low-level output voltage	V _{CC} = 4.75V I _{OL} = 20mA, V _{IL} = 0.8V			0.5	V
I _{IH} High-level input current	V _{CC} = 5.25V, V _{IH} = 2.7V			50	μA
I _{IL} Low-level input current	V _{CC} = 5.25V, V _{IL} = 0.5V			-2	mA
I _{CC} Supply current outputs high	V _{CC} = 5.25V			24	mA
I _{CC} Supply current outputs low	V _{CC} = 5.25V			54	mA

[查询"31A-5101"供应商](#)

**31A, 34A Series
5 Tap and Triple Independent 14 Pin Moulded DIP**

delay characteristics $V_{cc} = 5V$, $T_a = 25C$, no loads at taps, input test pulse width 100% of total delay, input rise time 3.0ns.

delay tolerance from input to tap $\pm 2\text{ns}$ or $\pm 5\%$ whichever is greater

**31A SERIES 5 Tap 14 Pin DIP
Package style H with pins 2, 3, 5, 9, 11, and 13 missing**

PART No.	TOTAL DELAY (ns) $\pm 5\%$ (1)	TAP TO TAP DELAY (ns)	OUTPUT RISE TIME (ns)
31A - 5250	25	5 \pm 2	3
31A - 5500	50	10 \pm 2	3
31A - 5101	100	20 \pm 2	3
31A - 5151	150	30 \pm 3	4
31A - 5201	200	40 \pm 4	4
31A - 5251	250	50 \pm 5	4
31A - 5301	300	60 \pm 6	4
31A - 5401	400	80 \pm 8	4
31A - 5501	500	100 \pm 10	4

Note: Delays measured at 1.5V on leading edge, Rise Time measured from 0.75V to 2.4V

(1) or $\pm 2\text{ns}$ whichever is greater

31A-34A Series
查询 31A-3101"供应商

5 Tap and Triple Independent 14 Pin Moulded DIP

**34A Triple independent equal 14 Pin DIP
Package style H with pins 2, 4, 6, 9, 11 and 13 missing**

PART No.	TOTAL DELAY (ns) $\pm 5\%$ (1)	RISE TIME (ns) max.	PART No.	TOTAL DELAY (ns) $\pm 5\%$ (1)	RISE TIME (ns) max.
34A - 010	10	4	34A - 060	60	4
34A - 020	20	4	34A - 070	70	4
34A - 030	30	4	34A - 080	80	4
34A - 040	40	4	34A - 090	90	4
34A - 050	50	4	34A - 100	100	4

Note: Delays measured at 1.5V on leading edge, Rise Time measured from 0.75V to 2.4V

(1) or ± 2 ns whichever is greater

