

10 Taps - Delay Lines

1520 (DIP)

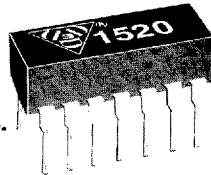
SERIES: 1520S (SMD)

$T_D/T_R = 5/1$

**data
delay
devices, inc.**

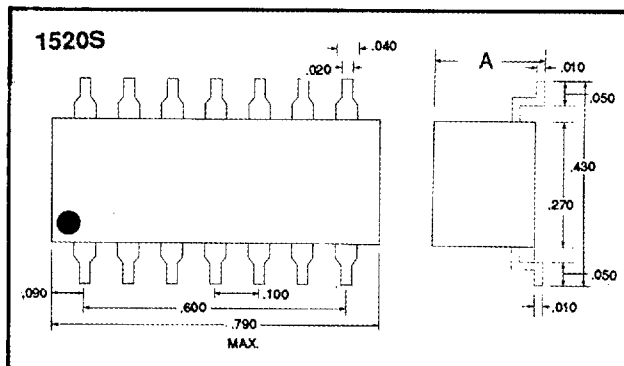
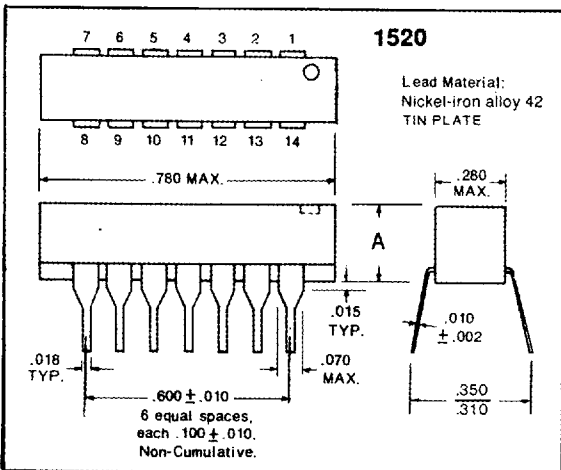
Features:

- 1000 ns delay.
- 10 taps.
- Standard 14 pins DIP and SMD cases.
- Low D.C. resistance.
- Fast delivery.



Specifications:

- Delay accuracy: $\pm 5\%$ (others on request).
- No. taps: 10 equally spaced taps.
- Taps accuracy: $\pm 5\%$ of tap delay.
- Impedance tolerance: $\pm 10\%$ (others on request).
- Rise-Time: 20% of time delay.
- Withstanding voltage: 50 Vdc. min.
- Temperature coefficient: 100 PPM/°C.
- Environment: Meets or exceeds MIL-D-23859C.



PART NUMBER MAKE-UP

1520(S) A 101 151 A

SERIES

MOUNTING HEIGHT CODE
(See Table II.)

DELAY TIME: Expressed in nanoseconds (ns).
First two digits are significant figures.
Last digit specifies number of zeros to follow.

IMPEDANCE: Expressed in ohms (Ω).
First two digits are significant.
Last digit specifies number of zeros to follow.

PIN SEQUENCE CODE (See Table III).
"STANDARD" Pin Sequence if omitted.

TABLE II. MOUNTING HEIGHT

CODE	DIMENSIONS (MAX.)
A	.187
B	.240
C	.290

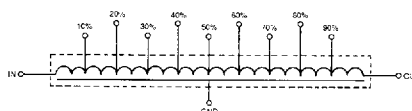


TABLE 1

Td (ns) ⁽¹⁾ ($\pm 5\%$)	Td/tap (ns) ⁽²⁾ ($\pm 5\%$)	Tr (ns) MAX	ATTENUATION (%) TYPICAL PER IMPEDANCE Ω				
			50	100	200	300	500
10	1	3		5			
20	2	5.5	3	5	5		
30	3	6.5	3	5	5		
40	4	8	3	5	5	5	
50	5	10	3	5	5	5	7
60	6	12	3	5	5	5	7
75	7 1/2	15	3	5	5	5	7
100	10	20	3	5	5	7	7
120	12	24	3	5	6	7	8
150	15	30	3	5	6	7	8
180	18	36	4	5	6	7	8
200	20	40	4	5	6	7	8
220	22	44	4	5	6	7	8
250	25	50	4	5	6	7	8
300	30	60		5	8	10	10
375	37 1/2	75		7	8	10	10
500	50	100		8	10	12	12
600	60	120				15	15
750	75	150				15	20
1000	100	200					20

(¹) Or ± 2 ns, whichever is greater. (²) Or ± 1 ns, whichever is greater, referenced from input.

TABLE III. PIN NUMBER SEQUENCE

CODE	IN	10%	20%	30%	40%	50%	60%	70%	80%	90	OUT	GND
Standard	14	2	12	3	11	4	5	10	6	9	7	1, 8
A	1	2	13	3	12	4	10	5	9	6	7	14
B	2	3	4	5	6	7	9	10	11	12	13	1, 14
C	7	9	6	10	5	11	12	3	13	2	14	1, 8
D	1	13	2	12	3	11	4	10	5	9	6	7, 8, 14
E	2	3	4	5	6	7, 8	9	10	11	12	13	1, 14
F	1	13	2	12	3	11	4	10	5	9	6	7
G	2	13	3	12	4	11	5	10	6	9	7	8, 14
H	2	3	4	12	6	7	9	10	11	12	13	1
I	1	13	2	12	3	11	5	10	6	9	7	8, 14
J	1	2	13	3	12	4	10	5	9	6	7	8, 14
K	1	2	3	4	5	6	12	11	10	9	8	7
N	1	2	3	4	5	6	10	11	12	13	14	7
T	1	2	3	4	5	6	9	10	11	12	13	7, 14
U	2	3	4	5	6	8	9	10	11	12	13	1, 7
V	2	3	4	5	6	8	9	10	11	12	13	1
W	1	13	2	12	3	11	4	10	5	9	6	7, 14

*Other pin sequences available upon request.