

50P/60P/61P – SERIES

14 PIN DUAL-IN-LINE PASSIVE DELAY LINE

FEATURES

- 14-pin sip, dip and surface mount package.
- 5:1 delay-to-risetime ration
- 10 equally spaced taps.
- Wide operating temperature range.
- Low cost.



ELECTRICAL CHARACTERISTICS

Total Delay	: 10 to 1000ns
Tap Delays	: 10% Increments Standard
Rise Time	: 20% Max of total delay
Characteristic Impedance	: 50 to 500 Ω (±10%)
Attenuation	: 2 DB Max
Distortion	: ±10% Max
Temperature Coefficient of Delay	: 100ppm/°C Max
Operating Temperature Range	: 0°C to +70°C
Storage Temperature Range	: -65°C to +130°C
Insulation Resistance	: 1000MΩ Min @50VDC
Dielectric Strength	: 50VDC

INPUT PULSE TEST CONDITIONS

Pulse Voltage	: 2.5V
Pulse Width	: 5TD
Pulse Rise Time	: 2ns (10% TO 90%)

ELECTRICAL SPECIFICATIONS

Part Number	Total Delay (ns) (±5%)*	Tap Delay (ns) (±5%)**	Tr (ns) Max	Attenuation (%) Typical Per Impedance (Ω)				
				50	100	200	300	500
50P/60P/61P-010XXXX	10	1	3	-	5	-	-	-
50P/60P/61P-020 XXXX	20	2	5.5	3	5	5	-	-
50P/60P/61P-030 XXXX	30	3	6.5	3	5	5	-	-
50P/60P/61P-040 XXXX	40	4	8	3	5	5	5	-
50P/60P/61P-050 XXXX	50	5	10	3	5	5	5	7
50P/60P/61P-060 XXXX	60	6	12	3	5	5	5	7
50P/60P/61P-075 XXXX	75	7.5	15	3	5	5	5	7
50P/60P/61P-100 XXXX	100	10	20	3	5	5	7	7
50P/60P/61P-120 XXXX	120	12	24	3	5	6	7	8
50P/60P/61P-150 XXXX	150	15	30	3	5	6	7	8
50P/60P/61P-180 XXXX	180	18	36	4	5	6	7	8
50P/60P/61P-200 XXXX	200	20	40	4	5	6	7	8
50P/60P/61P-220 XXXX	220	22	44	4	5	6	7	8
50P/60P/61P-250 XXXX	250	25	50	4	5	6	7	8
50P/60P/61P-300 XXXX	300	30	60	-	5	8	10	10
50P/60P/61P-375 XXXX	375	37.5	75	-	7	8	10	10
50P/60P/61P-500 XXXX	500	50	100	-	8	10	12	12
50P/60P/61P-600 XXXX	600	60	120	-	-	-	15	15
50P/60P/61P-750 XXXX	750	75	150	-	-	-	15	20

* or±2ns, whichever is greater.

* * or±2ns, whichever is greater, referenced from input.

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PIN CONNECTIONS

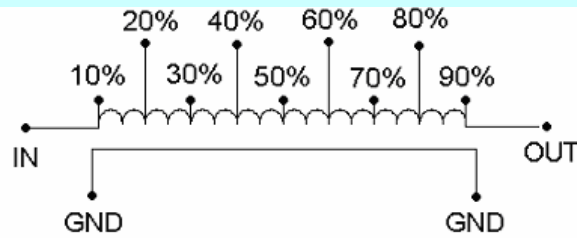


TABLE I PIN-NUMBER SEQUENCE

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	5	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
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