

30P SERIES

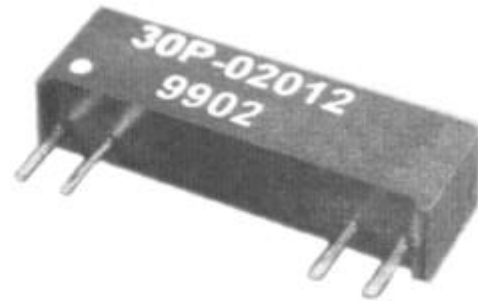
8 PIN SINGLE-IN-LINE
PASSIVE DELAY LINE

FEATURES

- 8-PIN SIP PACKAGE.
- 1 EQUALLY-SPACED TAPS.
- WIDE OPERATING TEMPERATURE RANGE
- FAST RISE TIME
- LOW COST

ELECTRICAL CHARACTERISTICS

Total Delay	:500ps to 200ns
Risetime	:20% MAX OF TOTAL DELAY
Characteristic Impedance	:50 to 500 Ω ($\pm 10\%$)
Attenuation	:1dBmax(SEE TABLE)
Distortion	: $\pm 10\%$ max
Temperature Coefficient of Delay	:100ppm/ $^{\circ}\text{C}$ max
Operating Temperature Range	:-55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$
Storage Temperature Range	:-65 $^{\circ}\text{C}$ to +130 $^{\circ}\text{C}$
Insulation Resistance	:100M Ω min @50VDC
Dielectric Strength	:50VDC



INPUT PULSE TEST CONDITION

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

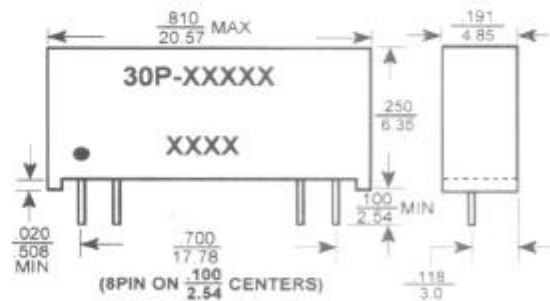
ELECTRICAL SPECIFICATIONS

PART NO.	TOTAL DELAY (ns)	RISE TIME MAX(ns)	ATTENUATION(%) PER IMPEDANCE(Ω)				
			50	100	200	300	500
30P-001XX	1.0 ± 0.25	1.0	1.0	1.0	1.0	1.0	1.0
30P-001R5XX	1.5 ± 0.25	1.0	1.0	1.0	1.0	1.0	1.0
30P-002XX	2.0 ± 0.25	1.0	1.0	1.0	1.0	1.0	1.0
30P-002R5XX	2.5 ± 0.25	1.0	1.0	1.0	1.0	1.0	1.0
30P-003XX	3.0 ± 0.25	1.0	1.0	1.0	1.0	1.0	1.0
30P-003R5XX	3.5 ± 0.25	1.0	1.0	1.0	1.0	1.0	2.0
30P-004XX	4.0 ± 0.25	1.0	1.0	1.0	1.0	1.0	2.0
30P-004R5XX	4.5 ± 0.25	1.0	1.0	1.0	2.0	1.0	2.5
30P-005XX	5.0 ± 0.25	1.1	1.0	1.5	2.0	2.0	2.5
30P-005R5XX	5.5 ± 0.25	1.2	1.5	1.5	2.0	2.0	3.0
30P-006XX	6.0 ± 0.25	1.3	1.5	1.5	2.0	2.0	3.0
30P-006R5XX	6.5 ± 0.25	1.4	1.5	1.5	2.0	2.5	3.0
30P-007XX	7.0 ± 0.25	1.5	1.5	1.5	2.0	2.0	4.0
30P-007R5XX	7.5 ± 0.25	1.6	1.5	1.5	2.0	2.5	4.0
30P-008XX	8.0 ± 0.25	1.7	1.5	1.5	2.5	2.5	4.0
30P-008R5XX	8.5 ± 0.25	1.8	1.5	2.0	2.5	3.0	4.0
30P-009XX	9.0 ± 0.25	1.9	1.5	2.0	2.5	3.0	5.0
30P-009R5XX	9.5 ± 0.25	2.0	1.5	2.0	2.5	3.0	5.0
30P-010XX	10.0 ± 0.25	2.0	1.5	2.0	2.5	3.0	5.0
30P-015XX	15.0 ± 0.50	2.8	2.0	2.0	3.0	3.5	5.0
30P-020XX	20.0 ± 0.60	3.8	2.0	3.0	3.0	4.0	5.0
30P-030XX	30.0 ± 0.90	5.5	2.0	3.0	4.0	4.0	5.0
30P-040XX	40.0 ± 1.20	7.4	3.0	4.0	4.0	5.0	6.0
30P-040XX	50.0 ± 1.50	8.6	3.0	4.0	4.0	5.0	6.0
30P-075XX	75.0 ± 2.25	14.0	3.0	4.0	5.0	5.0	7.0
30P-100XX	100.0 ± 3.00	20.0	3.0	4.0	5.0	6.0	7.0
30P-125XX	125.0 ± 3.75	25.0	3.0	5.0	6.0	7.0	8.0
30P-150XX	150.0 ± 4.50	30.0	4.0	5.0	6.0	7.0	8.0
30P-175XX	175.0 ± 5.25	34.0	4.0	5.0	6.0	7.5	9.0
30P-200XX	200.0 ± 6.00	38.0	4.0	5.5	6.5	7.5	9.0
30P-250XX	250.0 ± 7.50	46.0	4.0	5.5	7.0	8.0	9.0

PIN CONNECTIONS



MARKINGS AND DIMENSION



Dimensions: inches/mm
Unless otherwise specified,
all tolerances are $\pm .010/\pm 0.25$

ALLEN AVIONICS, INC.