

DIGITAL DELAY LINE SERIES 0461 ECL 100K DELAY MODULE 8 TAP

TECHNICAL INFORMATION

TEST CONDITIONS

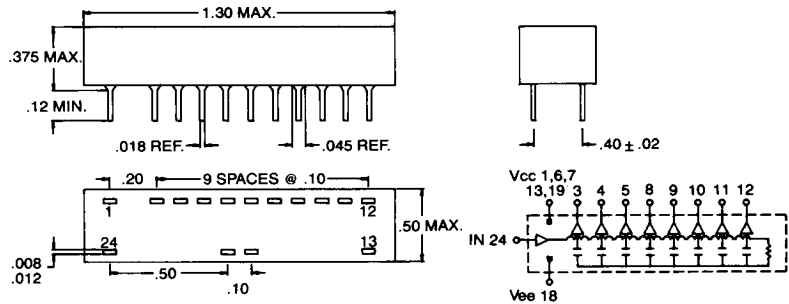
Logic 1 - 0.9 Volts
Logic 0 - 1.7 Volts
Rise Time 20% to 80% 1.0 Nsec
Pulse Width Total Delay ± 10.0 Nsec
Pulse Period $4 \times$ Pulse Width
Supply Voltage, Vee - 4.5 Volts
Output Terminations 50 Ohm
 $\pm 1\%$ to - 2 Volts
Ambient Temperature 25°C

PERFORMANCE CHARACTERISTICS

Delay Tolerances
As Specified In Table
Performance Characteristics apply at above listed Test Conditions.

ELECTRICAL CHARACTERISTICS

Supply Voltage, Vee - 4.2 To - 4.8 Volts
Logic 1 Input Voltage - 1.165 Volts min.
Logic 1 Input Current 350 Microamp max.
Logic 1 Output Voltage - 1.025 Volts min.
Logic 0 Input Voltage - 1.475 Volts max.
Logic 0 Input Current 0.5 Microamp min.
Logic 0 Output Voltage - 1.62 Volts max.
Operating Temperature Range 0°C To 85°C
Temperature Coefficient Of Total Delay 300PPM/°C Typical
Minimum Input Pulse Width 40% Of Total Delay
Maximum Duty Cycle 50%
—Compatible with ECL 100K circuits.
—Other delays and tolerances upon request



Part Number	Rise Time 2, 3	Tap 1 1, 3	Tap 2 1, 3	Tap 3 1, 3	Tap 4 1, 3
0461-0016-01	2.0	$2 \pm .5$	$4 \pm .5$	6 ± 1	8 ± 1
0461-0020-01	2.0	$2.5 \pm .5$	$5 \pm .5$	7.5 ± 1	10 ± 1.5
0461-0024-01	2.0	$3 \pm .5$	6 ± 1	9 ± 1	12 ± 1.5
0461-0028-01	2.0	$3.5 \pm .5$	7 ± 1	10.5 ± 1.5	14 ± 1.5
0461-0032-01	2.5	$4 \pm .5$	8 ± 1	12 ± 1.5	16 ± 1.5
0461-0036-01	2.5	$4.5 \pm .5$	9 ± 1	13.5 ± 1.5	18 ± 1.5
0461-0040-01	2.5	$5 \pm .5$	10 ± 1.5	15 ± 1.5	20 ± 1.5
0461-0044-01	3.0	5.5 ± 1	11 ± 1.5	16.5 ± 1.5	22 ± 2
0461-0048-01	3.0	6 ± 1	12 ± 1.5	18 ± 1.5	24 ± 2
0461-0052-01	3.0	6.5 ± 1	13 ± 1.5	19.5 ± 1.5	26 ± 2
0461-0056-01	3.0	7 ± 1	14 ± 1.5	21 ± 2	28 ± 2
0461-0060-01	4.0	7.5 ± 1	15 ± 1.5	22.5 ± 2	30 ± 2
0461-0064-01	4.0	8 ± 1	16 ± 1.5	24 ± 2	32 ± 2
0461-0068-01	4.0	8.5 ± 1	17 ± 1.5	25.5 ± 2	34 ± 2
0461-0072-01	4.5	9 ± 1	18 ± 1.5	27 ± 2	36 ± 2
0461-0076-01	4.5	9.5 ± 1	19 ± 1.5	28.5 ± 2	38 ± 2
0461-0080-01	4.5	10 ± 1.5	20 ± 2	30 ± 2	40 ± 2

Part Number	Tap 5 1, 3	Tap 6 1, 3	Tap 7 1, 3	Output 1, 3
0461-0016-01	10 ± 1.5	12 ± 1.5	14 ± 1.5	16 ± 1.5
0461-0020-01	12.5 ± 1.5	15 ± 1.5	17.5 ± 1.5	20 ± 2
0461-0024-01	15 ± 1.5	18 ± 1.5	21 ± 2	24 ± 2
0461-0028-01	17.5 ± 1.5	21 ± 2	24.5 ± 2	28 ± 2
0461-0032-01	20 ± 2	24 ± 2	28 ± 2	32 ± 2
0461-0036-01	22.5 ± 2	27 ± 2	31.5 ± 2	36 ± 2
0461-0040-01	25 ± 2	30 ± 2	35 ± 2	40 ± 2
0461-0044-01	27.5 ± 2	33 ± 2	38.5 ± 2	44 ± 2
0461-0048-01	30 ± 2	36 ± 2	42 ± 2	48 ± 2
0461-0052-01	32.5 ± 2	39 ± 2	45.5 ± 2	52 ± 2
0461-0056-01	35 ± 2	42 ± 2	49 ± 2	56 ± 2
0461-0060-01	37.5 ± 2	45 ± 2	52.5 ± 2	60 ± 2.5
0461-0064-01	40 ± 2	48 ± 2	56 ± 2	64 ± 2.5
0461-0068-01	42.5 ± 2	51 ± 2	59.5 ± 2	68 ± 2.5
0461-0072-01	45 ± 2	54 ± 2	63 ± 2.5	72 ± 3
0461-0076-01	47.5 ± 2	57 ± 2	66.5 ± 2.5	76 ± 3
0461-0080-01	50 ± 2	60 ± 2.5	70 ± 3	80 ± 3

1 Delays measured at 50% of the pulse on leading edge only.
2 Rise Times measured from 20% to 80%.
3 All timing in NS.

Specifications Subject To Change Without Notice