

DIGITAL DELAY LINE SERIES 0443 ECL 10K DELAY MODULE 10 TAP

TECHNICAL INFORMATION

TEST CONDITIONS

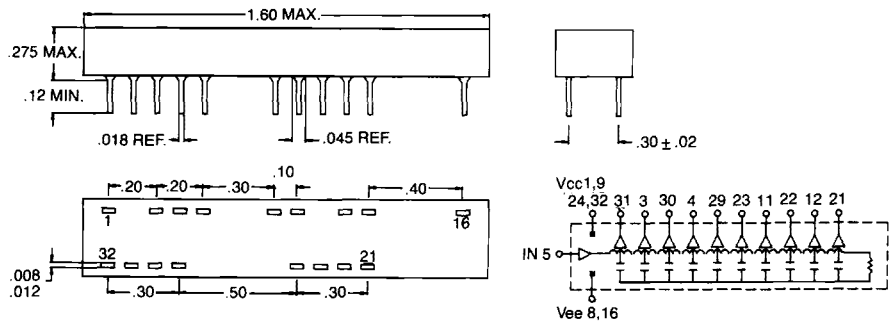
Logic 1	- 0.9 Volts
Logic 0	- 1.8 Volts
Rise Time	2.0 Nsec (20% to 80%)
Pulse Width	Total Delay + 10.0 Nsec
Pulse Period	4 x Pulse Width
Supply Voltage, Vee	- 5.2 Volts
Output Terminations	50 Ohm ± 1% to - 2 Volts
Ambient Temperature	25°C

PERFORMANCE CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS

Supply Voltage, Vee	- 4.94 To - 5.46 Volts
Logic 1 Input Voltage	- 0.98 Volts min.
Logic 1 Input Current	265 Microamp max.
Logic 1 Output Voltage	- 0.96 Volts min.
Logic 0 Input Voltage	- 1.63 Volts max.
Logic 0 Input Current	0.5 Microamp min.
Logic 0 Output Voltage	- 1.65 Volts max.
Operating Temperature Range	- 30°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 ECL10K	
—Other delays and tolerances upon request	



Part Number	Tap 1 1, 3, 4	Tap 2 1, 3, 4	Tap 3 1, 3, 4	Tap 4 1, 3, 4	Tap 5 1, 3, 4	Tap 6 1, 3, 4
0443-0011-10	2 ± .5	3 ± .5	4 ± .5	5 ± 1	6 ± 1	7 ± 1
0443-0020-10	2 ± .5	4 ± .5	6 ± 1	8 ± 2	10 ± 2	12 ± 1
0443-0030-10	3 ± .5	6 ± 1	9 ± 2	12 ± 2	15 ± 2	18 ± 2
0443-0040-10	4 ± .5	8 ± 2	12 ± 2	16 ± 2	20 ± 2	24 ± 2
0443-0050-10	5 ± 1	10 ± 2	15 ± 2	20 ± 2	25 ± 2	30 ± 2
0443-0060-10	6 ± 1	12 ± 2	18 ± 2	24 ± 2	30 ± 2	36 ± 2
0443-0070-10	7 ± 1	14 ± 2	21 ± 2	28 ± 2	35 ± 2	42 ± 2
0443-0080-10	8 ± 2	16 ± 2	24 ± 2	32 ± 2	40 ± 2	48 ± 2
0443-0090-10	9 ± 2	18 ± 2	27 ± 2	36 ± 2	45 ± 2	54 ± 2
0443-0100-10	10 ± 2	20 ± 2	30 ± 2	40 ± 2	50 ± 2	60 ± 3
0443-0150-10	15 ± 2	30 ± 2	45 ± 2	60 ± 3	75 ± 3	90 ± 3
0443-0200-10	20 ± 2	40 ± 2	60 ± 3	80 ± 3	100 ± 3	120 ± 4
0443-0250-10	25 ± 2	50 ± 2	75 ± 3	100 ± 3	125 ± 4	150 ± 4
0443-0300-10	30 ± 2	60 ± 3	90 ± 3	120 ± 4	150 ± 5	180 ± 6
0443-0350-10	35 ± 2	70 ± 3	105 ± 4	140 ± 5	175 ± 5	210 ± 7
0443-0400-10	40 ± 2	80 ± 3	120 ± 4	160 ± 5	200 ± 6	240 ± 7
0443-0450-10	45 ± 2	90 ± 3	135 ± 4	180 ± 6	225 ± 7	270 ± 8
0443-0500-10	50 ± 2	100 ± 3	150 ± 5	200 ± 6	250 ± 8	300 ± 9

Part Number	Tap 7 1, 3, 4	Tap 8 1, 3, 4	Tap 9 1, 3, 4	Output 1, 3, 4	Rise Time 2, 3, 4
0443-0011-10	8 ± 2	9 ± 2	10 ± 2	11 ± 2	4
0443-0020-10	14 ± 2	16 ± 2	18 ± 2	20 ± 2	4
0443-0030-10	21 ± 2	24 ± 2	27 ± 2	30 ± 2	4
0443-0040-10	28 ± 2	32 ± 2	36 ± 2	40 ± 2	4
0443-0050-10	35 ± 2	40 ± 2	45 ± 2	50 ± 2	4
0443-0060-10	42 ± 2	48 ± 2	54 ± 2	60 ± 3	4
0443-0070-10	49 ± 2	56 ± 2	63 ± 3	70 ± 3	4
0443-0080-10	56 ± 2	64 ± 3	72 ± 3	80 ± 3	4
0443-0090-10	63 ± 3	72 ± 3	81 ± 3	90 ± 3	5
0443-0100-10	70 ± 3	80 ± 3	90 ± 3	100 ± 3	5
0443-0150-10	105 ± 4	120 ± 4	135 ± 4	150 ± 5	8
0443-0200-10	140 ± 5	160 ± 5	180 ± 5	200 ± 6	10
0443-0250-10	175 ± 5	200 ± 6	225 ± 7	250 ± 8	15
0443-0300-10	210 ± 7	240 ± 7	270 ± 8	300 ± 9	15
0443-0350-10	245 ± 8	280 ± 9	315 ± 10	350 ± 11	20
0443-0400-10	280 ± 9	320 ± 10	360 ± 11	400 ± 12	20
0443-0450-10	315 ± 10	360 ± 11	405 ± 12	450 ± 14	25
0443-0500-10	350 ± 11	400 ± 12	450 ± 14	500 ± 15	25

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