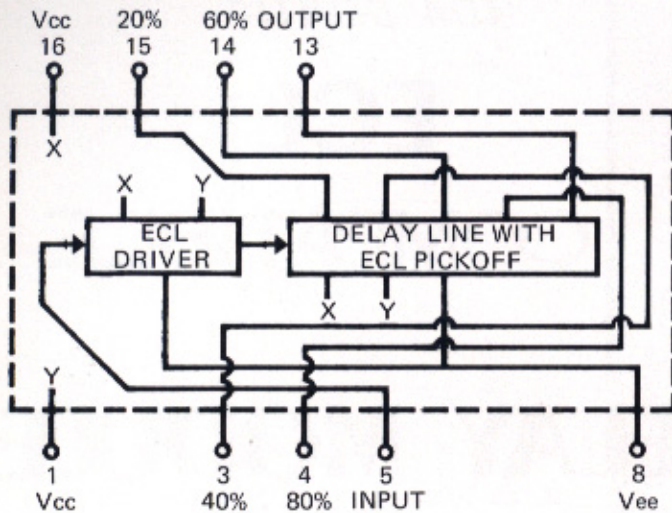
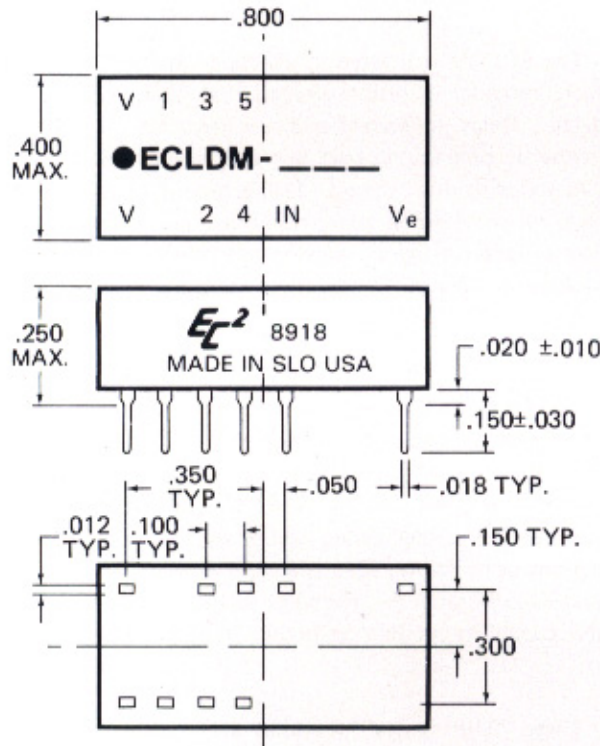


Marking consists of manufacturer's name, logo (EC²), part number, terminal identification and date code of manufacture. All marking is applied by silk screen process using white epoxy paint in accordance with MIL-STD-130, to meet the permanency of identification required by MIL-STD-202, Method 215.

BLOCK DIAGRAM IS SHOWN BELOW



MECHANICAL DETAIL IS SHOWN BELOW



TEST CONDITIONS

- All measurements are made at 25°C.
- Vee supply voltage is maintained at -5.2V DC.
- All units are tested using a positive input pulse provided by a standard open emitter ECL 10,000 gate. The input and output utilize a 100 ohm pulldown resistor to -2V; the output is also loaded with one ECL 10,000 gate.
- Input pulse width used is 5 to 10ns longer than full delay of module under test; spacing between pulses (falling edge to rising edge) is three times the pulse width used.

- Supply voltage: -5.2V $\pm$ 5% to Vee (can be operated on $\pm$ 5V to V_{CC}).
- Supply current: 50ma typical
- Logic 1 input at 25°C:
 - Voltage -.98 min.
 - Current 265ua max.
- Logic 0 input at 25°C:
 - Voltage -1.63 max.
 - Current -.5ua min.
- Logic 1 Voltage out at 25°C: -.96 min.
- Logic 0 Voltage out at 25°C: -1.65 max.
- Operating temperature range: -30 to +85°C
- Storage temperature -55 to +125°C.

*Delays increase or decrease less than .5% for a respective increase or decrease of 5% in supply voltage.

PART NUMBER TABLE

ϕ RISE TIME, DELAYS AND TOLERANCES (in ns)						
PART NUMBER	RISE TIME MAX.	Tap 1	Tap 2	Tap 3	Tap 4	OUTPUT
ECLDM-6	4	2 $\pm$ 2	3 $\pm$ 2	4 $\pm$ 2	5 $\pm$ 2	6 $\pm$ 2
ECLDM-10	4	2 $\pm$ 5	4 $\pm$ 5	6 $\pm$ 5	8 $\pm$ 5	10 $\pm$ 5
ECLDM-15	4	3 $\pm$ 5	6 $\pm$ 5	9 $\pm$ 5	12 $\pm$ 5	15 $\pm$ 5
ECLDM-20	4	4 $\pm$ 5	8 $\pm$ 5	12 $\pm$ 5	16 $\pm$ 5	20 $\pm$ 5
ECLDM-25	4	5 $\pm$ 1	10 $\pm$ 1	15 $\pm$ 1	20 $\pm$ 1	25 $\pm$ 1
ECLDM-30	4	6 $\pm$ 1	12 $\pm$ 1	18 $\pm$ 1	24 $\pm$ 1	30 $\pm$ 1
ECLDM-35	4	7 $\pm$ 1	14 $\pm$ 1	21 $\pm$ 1	28 $\pm$ 1.5	35 $\pm$ 1.5
ECLDM-40	4	8 $\pm$ 1	16 $\pm$ 1	24 $\pm$ 1.5	32 $\pm$ 1.5	40 $\pm$ 1.5
ECLDM-45	5	9 $\pm$ 1	18 $\pm$ 1	27 $\pm$ 1.5	36 $\pm$ 1.5	45 $\pm$ 2
ECLDM-50	5	10 $\pm$ 1	20 $\pm$ 1	30 $\pm$ 1.5	40 $\pm$ 2	50 $\pm$ 2
ECLDM-75	8	15 $\pm$ 1	30 $\pm$ 1.5	45 $\pm$ 2	60 $\pm$ 2.5	75 $\pm$ 2.5
ECLDM-100	10	20 $\pm$ 1	40 $\pm$ 1.5	60 $\pm$ 2	80 $\pm$ 3	100 $\pm$ 3
ECLDM-125	15	25 $\pm$ 1	50 $\pm$ 2	75 $\pm$ 2.5	100 $\pm$ 3	125 $\pm$ 4
ECLDM-150	15	30 $\pm$ 1.5	60 $\pm$ 2	90 $\pm$ 3	120 $\pm$ 4	150 $\pm$ 5
ECLDM-175	20	35 $\pm$ 1.5	70 $\pm$ 2.5	105 $\pm$ 4	140 $\pm$ 5	175 $\pm$ 5
ECLDM-200	20	40 $\pm$ 1.5	80 $\pm$ 2.5	120 $\pm$ 4	160 $\pm$ 5	200 $\pm$ 6
ECLDM-225	25	45 $\pm$ 2	90 $\pm$ 3	135 $\pm$ 4	180 $\pm$ 6	225 $\pm$ 7
ECLDM-250	25	50 $\pm$ 2	100 $\pm$ 3	150 $\pm$ 4.5	200 $\pm$ 6	250 $\pm$ 8
ECLDM-300	30	60 $\pm$ 2	120 $\pm$ 4	180 $\pm$ 5	240 $\pm$ 7	300 $\pm$ 9
ECLDM-350	35	70 $\pm$ 2	140 $\pm$ 4.5	210 $\pm$ 7	280 $\pm$ 9	350 $\pm$ 11
ECLDM-400	40	80 $\pm$ 3	160 $\pm$ 5	240 $\pm$ 7	320 $\pm$ 10	400 $\pm$ 12
ECLDM-450	45	90 $\pm$ 3	180 $\pm$ 6	270 $\pm$ 8	360 $\pm$ 11	450 $\pm$ 14
ECLDM-500	50	100 $\pm$ 3	200 $\pm$ 6	300 $\pm$ 9	400 $\pm$ 12	500 $\pm$ 15
ECLDM-600	30	120 $\pm$ 4	240 $\pm$ 7	360 $\pm$ 11	480 $\pm$ 15	600 $\pm$ 18
ECLDM-700	35	140 $\pm$ 4	280 $\pm$ 9	420 $\pm$ 13	560 $\pm$ 17	700 $\pm$ 20
ECLDM-800	40	160 $\pm$ 5	320 $\pm$ 10	480 $\pm$ 15	640 $\pm$ 19	800 $\pm$ 20
ECLDM-900	45	180 $\pm$ 6	360 $\pm$ 11	540 $\pm$ 16	720 $\pm$ 20	900 $\pm$ 22
ECLDM-1000	50	200 $\pm$ 6	400 $\pm$ 12	600 $\pm$ 18	800 $\pm$ 20	1000 $\pm$ 22

ϕ All modules can be operated up to the maximum pulse rate specified in the Part Number Table with duty cycles less than or equal to 50%; since pulse width accuracies may be somewhat degraded, it is suggested that the module be evaluated under the intended specific operating conditions. [Special modules can be readily manufactured to improve accuracies and/or provide customer specified random pulse widths for specific applications.](#)