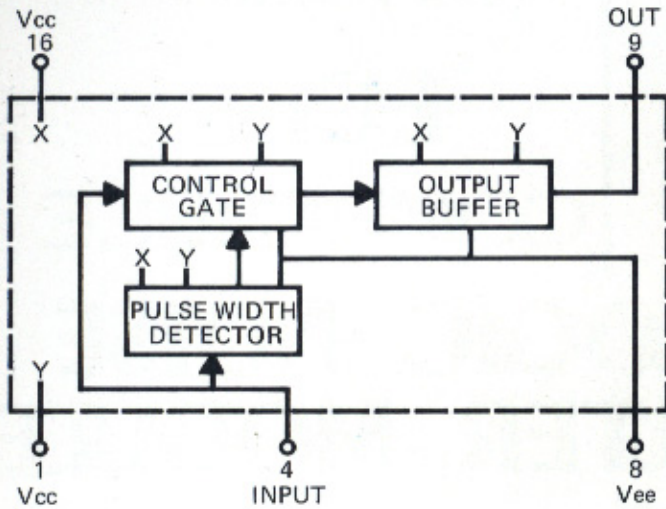


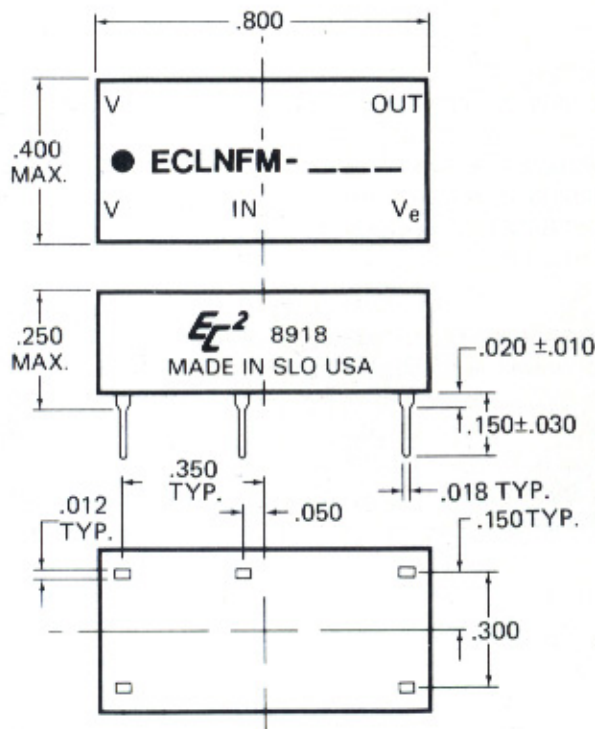
## DESIGN NOTES (continued)

Marking consists of manufacturer's name, logo (EC<sup>2</sup>), 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.
- V<sub>ee</sub> 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.
- All units are tested to verify suppress and pass pulse widths, as tabulated in the part number table.

## OPERATING SPECIFICATIONS

- Supply voltage: . . . . . -5.2V ±5% to V<sub>ee</sub> (can be operated on +5V to V<sub>cc</sub>).
- Supply current: . . . . . 55ma 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

\* Pulse width suppression times increase or decrease approximately 1% for a respective increase or decrease of 5% in supply voltage.

## PART NUMBER TABLE

PART NO.	TIMES AND TOLERANCES (in ns)		
	φ Pulse Widths		
	Nominal	Suppress	Pass
ECLNFM-5	5	≤4	≥6
ECLNFM-10	10	≤9	≥11
ECLNFM-15	15	≤14	≥16
ECLNFM-20	20	≤19	≥21
ECLNFM-25	25	≤24	≥26
ECLNFM-30	30	≤29	≥31
ECLNFM-35	35	≤34	≥36
ECLNFM-40	40	≤39	≥41
ECLNFM-45	45	≤43.5	≥46.5
ECLNFM-50	50	≤48.5	≥51.5
ECLNFM-60	60	≤58	≥62
ECLNFM-70	70	≤68	≥72
ECLNFM-75	75	≤73	≥77
ECLNFM-80	80	≤78	≥82
ECLNFM-90	90	≤88	≥92
ECLNFM-100	100	≤98	≥102
ECLNFM-125	125	≤123	≥127
ECLNFM-150	150	≤147	≥153
ECLNFM-175	175	≤172	≥178
ECLNFM-200	200	≤196	≥204
ECLNFM-250	250	≤245	≥255
ECLNFM-300	300	≤294	≥306
ECLNFM-400	400	≤392	≥408
ECLNFM-500	500	≤490	≥510

The output of the module will remain at state "0" for any transient input pulses shorter than suppress times and will change to state "1" for pulses longer than pass times. Input pulse width is measured at the -1.3V level.

Special modules can be readily manufactured to provide customer specified times for specific applications.