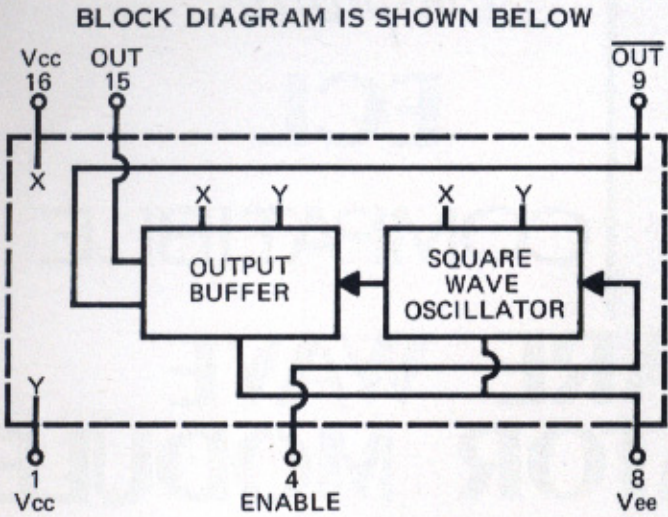
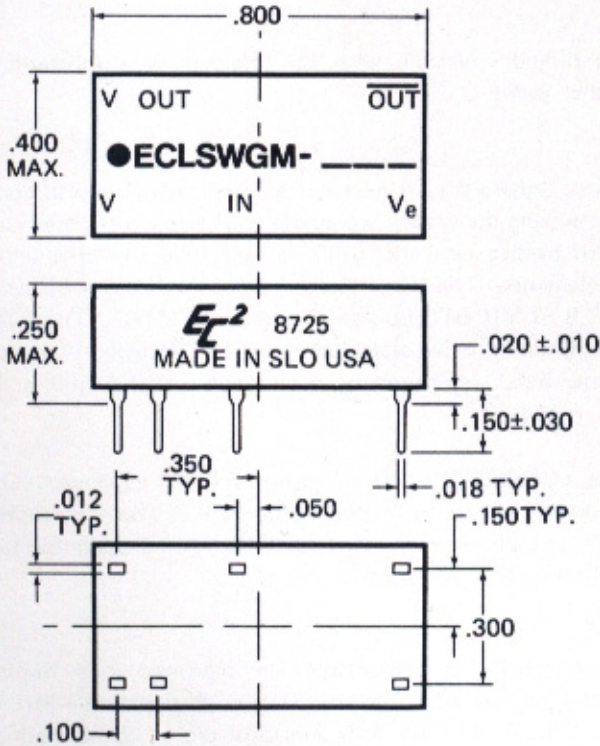


DESIGN NOTES (continued)

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.



MECHANICAL DETAIL IS SHOWN BELOW



TEST CONDITIONS

- 1. All measurements are made at 25°C.
- 2. Vee supply voltage is maintained at -5.2V DC.
- 3. All units are tested using a standard open emitter ECL 10,000 gate at the input. The input and output utilizes a 100 ohm pulldown resistor to -2V; the output is also loaded with one ECL 10,000 gate.

OPERATING SPECIFICATIONS

- \* Supply Voltage: . . . . . -5.2 ±5% to Vee (Can be operated on +5V to Vee)
- 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 Output at 25°C: . . . . . -.96 min.
- Logic 0 Output at 25°C: . . . . . -1.65 max.
- Operating temperature range: . . . . . -30 to +85°C
- Storage temperature: . . . . . -55 to +125°C

\* Output frequency will increase or decrease less than 1% for a respective increase or decrease of 5% in supply voltage.

PART NUMBER TABLE

| Part Number | Output Frequency | Part Number | Output Frequency |
|-------------|------------------|-------------|------------------|
| ECLSWGM-2   | 2 Mhz            | ECLSWGM-13  | 13 Mhz           |
| ECLSWGM-2.5 | 2.5 Mhz          | ECLSWGM-14  | 14 Mhz           |
| ECLSWGM-3   | 3 Mhz            | ECLSWGM-15  | 15 Mhz           |
| ECLSWGM-3.5 | 3.5 Mhz          | ECLSWGM-20  | 20 Mhz           |
| ECLSWGM-4   | 4 Mhz            | ECLSWGM-25  | 25 Mhz           |
| ECLSWGM-4.5 | 4.5 Mhz          | ECLSWGM-30  | 30 Mhz           |
| ECLSWGM-5   | 5 Mhz            | ECLSWGM-35  | 35 Mhz           |
| ECLSWGM-5.5 | 5.5 Mhz          | ECLSWGM-40  | 40 Mhz           |
| ECLSWGM-6   | 6 Mhz            | ECLSWGM-45  | 45 Mhz           |
| ECLSWGM-7   | 7 Mhz            | ECLSWGM-50  | 50 Mhz           |
| ECLSWGM-8   | 8 Mhz            | ECLSWGM-60  | 60 Mhz           |
| ECLSWGM-9   | 9 Mhz            | ECLSWGM-70  | 70 Mhz           |
| ECLSWGM-10  | 10 Mhz           | ECLSWGM-80  | 80 Mhz           |
| ECLSWGM-11  | 11 Mhz           | ECLSWGM-90  | 90 Mhz           |
| ECLSWGM-12  | 12 Mhz           | ECLSWGM-100 | 100 Mhz          |

Special modules can be readily manufactured to improve accuracies and/or provide customer specified random frequencies for specific applications.