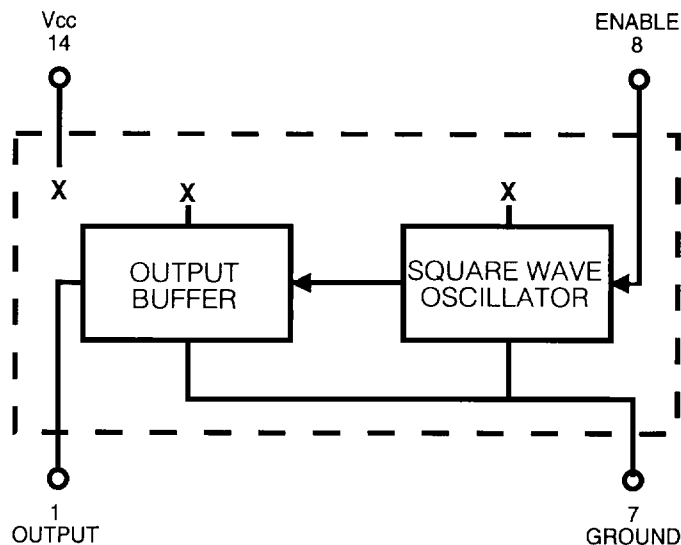
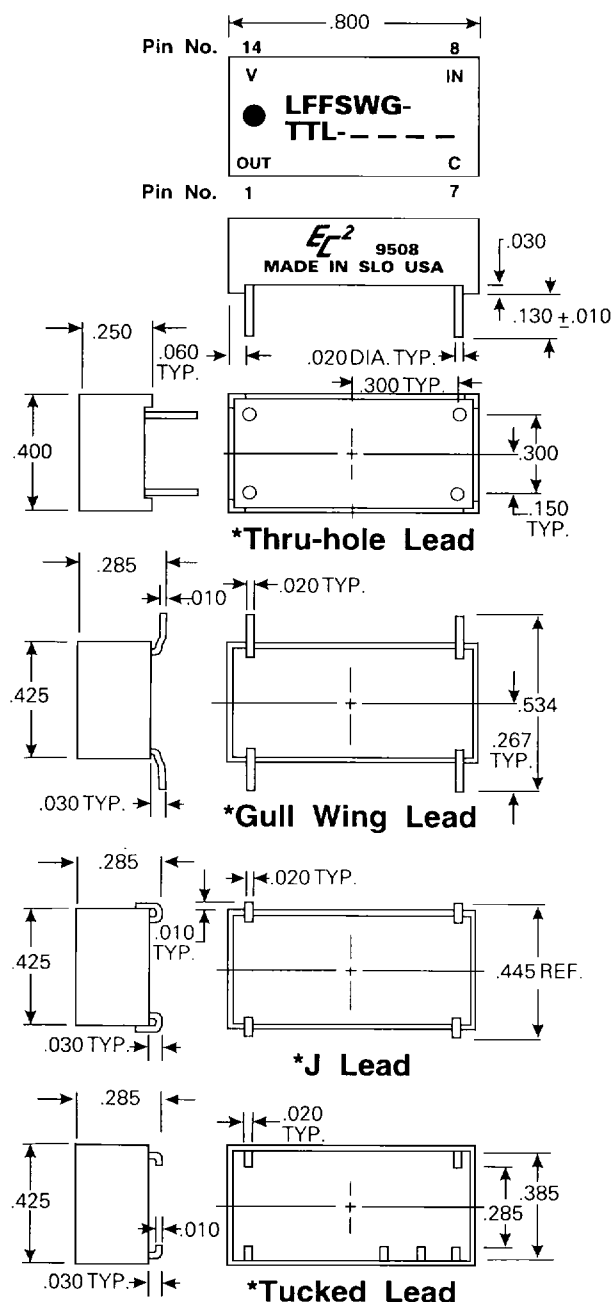




## BLOCK DIAGRAM IS SHOWN BELOW



## MECHANICAL DETAIL IS SHOWN BELOW



## TEST CONDITIONS

1. All measurements are made at 25°C.
2. V<sub>CC</sub> supply voltage is maintained at 5.0V DC.
3. All units are tested using a FAST toggle-type gate driving the input and one FAST T<sup>2</sup>L load at the output.

## OPERATING SPECIFICATIONS

- \* V<sub>CC</sub> supply voltage: . . . . . 4.75 to 5.25V DC  
V<sub>CC</sub> supply current:  
LFFSWG-TTL-30 . . . . . 50mA typical  
LFFSWG-TTL-1.0 . . . . . 53mA typical  
(Current increases with operating frequency)

### Logic 1 Input:

- Voltage . . . . . 2V min.; V<sub>CC</sub> max.  
Current . . . . . 2.7V = 20uA max.  
5.5V @ 1mA max.

### Logic 0 Input

- Voltage . . . . . .8V max.  
Current . . . . . -6mA max.

Logic 1 Voltage out: . . . . . 2.7V min.

Logic 0 Voltage out: . . . . . .5V max.

Operating temperature range: . . . . . 0 to +70°C.

Storage temperature: . . . . . -55 to +125°C.

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

## PART NUMBER TABLE

Suffix Part Number with G (for Gull Wing Lead), J (for J Lead), F (for Thru-hole Lead) or T (for Tucked Lead).

Examples: LFFSWG-TTL 30G (Gull Wing), LFFSWG-TTL-70J (J Lead), LFFSWG-TTL-140F (Thru-hole), LFFSWG-TTL-1.0T (Tucked Lead)

PART NUMBER	OUTPUT FREQUENCY	PART NUMBER	OUTPUT FREQUENCY
LFFSWG-TTL-30	30 kHz	LFFSWG-TTL-140	140 kHz
LFFSWG-TTL-35	35 kHz	LFFSWG-TTL-150	150 kHz
LFFSWG-TTL-40	40 kHz	LFFSWG-TTL-200	200 kHz
LFFSWG-TTL-45	45 kHz	LFFSWG-TTL-250	250 kHz
LFFSWG-TTL-50	50 kHz	LFFSWG-TTL-300	300 kHz
LFFSWG-TTL-55	55 kHz	LFFSWG-TTL-350	350 kHz
LFFSWG-TTL-60	60 kHz	LFFSWG-TTL-400	400 kHz
LFFSWG-TTL-70	70 kHz	LFFSWG-TTL-450	450 kHz
LFFSWG-TTL-80	80 kHz	LFFSWG-TTL-500	500 kHz
LFFSWG-TTL-90	90 kHz	LFFSWG-TTL-600	600 kHz
LFFSWG-TTL-100	100 kHz	LFFSWG-TTL-700	700 kHz
LFFSWG-TTL-110	110 kHz	LFFSWG-TTL-800	800 kHz
LFFSWG-TTL-120	120 kHz	LFFSWG-TTL-900	900 kHz
LFFSWG-TTL-130	130 kHz	LFFSWG-TTL-1.0	1.0 MHz

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