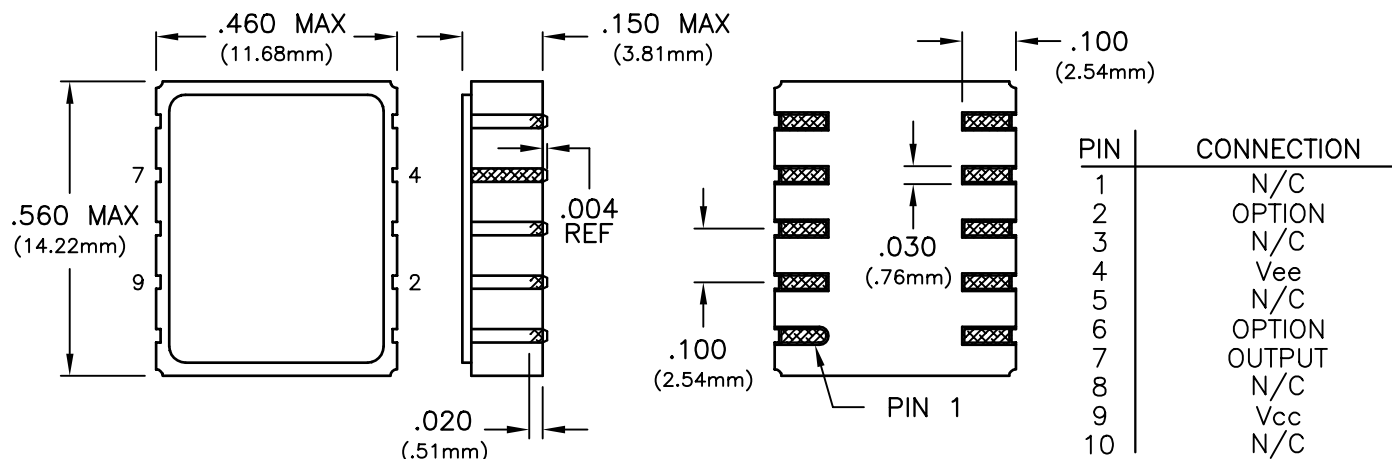


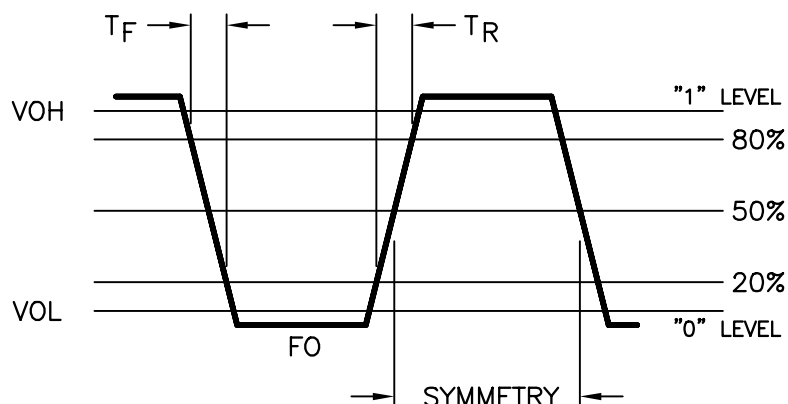
## SURFACE MOUNT ECL OSCILLATOR

| SPECIFICATIONS      |                | E92-51*                                                                                                                                                                                             | E92-52* | E92-53* | E92-54* |
|---------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|
| Frequency Range     |                | 13MHz to 300MHz                                                                                                                                                                                     |         |         |         |
| Frequency Stability |                | ±25ppm                                                                                                                                                                                              | ±50ppm  | ±100ppm | ±20ppm  |
|                     |                | (Inclusive of calibration tolerance at 25°C, operating temperature range, input voltage change, load change, aging, shock and vibration)                                                            |         |         |         |
| Temperature Range   |                | 0°C to +70°C                                                                                                                                                                                        |         |         |         |
| Output              | Waveform       | ECL Squarewave, 100K Compatible                                                                                                                                                                     |         |         |         |
|                     | Voltage Voh    | -1.025 Minimum , -0.88 Maximum                                                                                                                                                                      |         |         |         |
|                     | Vol            | -1.81 Minimum , -1.62 Maximum                                                                                                                                                                       |         |         |         |
|                     | Duty Cycle     | 45/55 Maximum measured at 50% level                                                                                                                                                                 |         |         |         |
|                     | Rise/Fall Time | 1.5nS Maximum                                                                                                                                                                                       |         |         |         |
|                     |                | Output must be terminated into 50 ohms to -2Vdc referenced to Vcc                                                                                                                                   |         |         |         |
| Supply Voltage      |                | -4.5Vdc ±5%                                                                                                                                                                                         |         |         |         |
| Supply Current      |                | 85mA Maximum                                                                                                                                                                                        |         |         |         |
| Package             |                | Hermetically sealed, leadless ceramic package                                                                                                                                                       |         |         |         |
| Options *           | 0              | Pin 2 and Pin 6: No Connection                                                                                                                                                                      |         |         |         |
|                     | 1              | Pin 6: Complementary Output , Pin 2: No Connection                                                                                                                                                  |         |         |         |
|                     | 2              | Pin 2: Enable/Disable , Pin 6: No Connection<br>Enable; Low Level, Vil (-1.60V Max) , Disable; High Level, Vih (-1.02V Min)<br>NOTE: When oscillator is disabled the output is in a low state (vol) |         |         |         |
|                     | 3              | Pin 2: Complementary Output , Pin 6: No Connection                                                                                                                                                  |         |         |         |
|                     | 4              | Pin 6: Complementary Output , Pin 2: Enable/Disable<br>Pin 6 Disables to low state (Vol), Pin 7 Disables to high state (Voh)                                                                        |         |         |         |

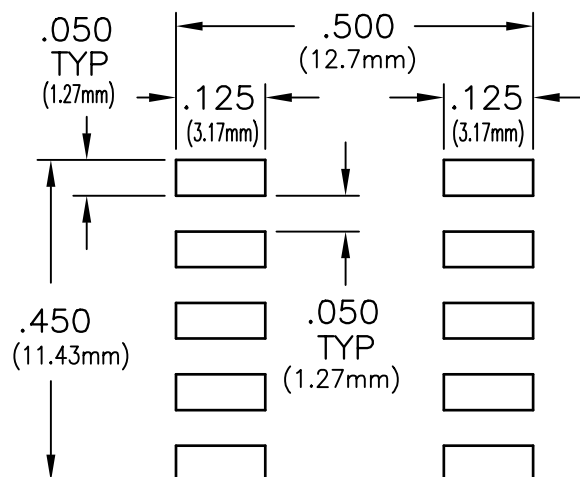


## SURFACE MOUNT ECL OSCILLATOR

### OUTPUT WAVEFORM



### SUGGESTED PAD LAYOUT



### TEST CIRCUIT

