



**CONNOR-WINFIELD CORPORATION**

AURORA, IL. 60505  
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# ECL-VCXO DIP OSCILLATORS

**EV**

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ECL Series

add number for Temp Range

add number for Freq Stability

Min. Total Deviation

add number for Supply Voltage

add number for Pin Connections

**FREQUENCY RANGE: 20MHz to 80MHz**

## ECL SERIES

|                           |   |                                 |  |
|---------------------------|---|---------------------------------|--|
| Output Waveform           | ECL Squarewave, 10K and 100K Compatible |                                 |  |
| Output Voltage            | Voh                                     | -1.04 Min, -0.95 Typ, -0.85 Max |  |
|                           | Vol                                     | -1.90 Min, -1.80 Typ, -1.60 Max |  |
| Duty Cycle                | 50/50 +/-5%                             |                                 |  |
| Rise/Fall Time            | 1.5nS Typ, 2.0nS Max                    |                                 |  |
| Control Voltage           | -0.5Vdc to -4.5Vdc                      |                                 |  |
| Center Frequency          | -2.5Vdc, +/-25ppm                       |                                 |  |
| Linearity                 | +/-20% Max                              |                                 |  |
| Freq Modulation Bandwidth | DC to 20KHz Max                         |                                 |  |

## TEMPERATURE RANGE

|   |                      |
|---|----------------------|
| 4 | -25 to +75 degrees C |
| 5 | 0 to +70 degrees C   |
| 6 | -40 to +85 degrees C |

## FREQUENCY STABILITY

|   |           |
|---|-----------|
| 1 | +/-25ppm  |
| 2 | +/-50ppm  |
| 3 | +/-100ppm |
| 4 | +/-20ppm  |

**DEVIATION (TOTAL DEVIATION: +/-50ppm to +/-100ppm)**

|     |  |
|-----|--|
| 100 | 100 = +/-50ppm                           |
| 160 | 160 = +/-80ppm                           |
| 200 | 200 = +/-100ppm (for frequencies <50MHz) |

## SUPPLY VOLTAGE

|   |  |
|---|--|
| 1 | -4.5Vdc +/-5%, Current: 40mA Typ, 70mA Max |
| 2 | -5.0Vdc +/-5%, Current: 40mA Typ, 70mA Max |
| 3 | -5.2Vdc +/-5%, Current: 40mA Typ, 70mA Max |

## PIN CONNECTIONS

|   |   |
|---|---|
| 1 | 1 Control Voltage, 7 Vee, 8 Output Signal, 14 Vcc (case ground) |
| 2 | 1 Control Voltage, 7 Vee (case ground), 8 Output Signal, 14 Vcc |

## EXAMPLE OF ECL-VCXO PART NUMBER

**EV 6 4 - 1 6 0 - 3 1 - 4 4 . 7 3 6 M H z**

EV = ECL Output Logic  
 6 = -40 to +85 degrees C  
 4 = +/-20ppm Freq Stability  
 160 = +/-80ppm Min Deviation  
 3 = -5.2Vdc Supply Voltage  
 1 = Pin 14 Case Ground  
 44.736MHz = Output Freq



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