



# XE10-100 SERIES (TTL) SURFACE MOUNT LCC PACKAGE STANDARD SPECIFICATIONS

|                                     |                        |
|-------------------------------------|------------------------|
| FREQUENCY RANGE                     | 400 KHz to 90 MHz      |
| FREQUENCY ACCURACY @ + 25 °C        | ± 0.0015% ( ± 15 PPM ) |
| FREQUENCY STABILITY Vs. TEMPERATURE | See Options Below      |
| OPERATING TEMPERATURE RANGE         | See Options Below      |
| INPUT VOLTAGE                       | + 5 VDC ± 10%          |

|                          |            |
|--------------------------|------------|
| INPUT CURRENT @ +5.0 VDC |            |
| 400.0 KHz to 15.0 MHz    | 60 mA Max. |
| 15.1 MHz to 25.0 MHz     | 30 mA Max. |
| 25.1 MHz to 40.0 MHz     | 40 mA Max. |
| 40.1 MHz to 90.0 MHz     | 60 mA Max. |

|  |                        |
|--|------------------------|
| OUTPUT SYMMETRY                          | TTL ( 10 Loads )       |
| RISE & FALL TIMES ( 0.6 VDC to 2.2 VDC ) | 60/40% @ 1.4 VDC Level |

|          |            |
|----------|------------|
| ≤ 15 MHz | 15 nS Max. |
| > 15 MHz | 5 nS Max.  |

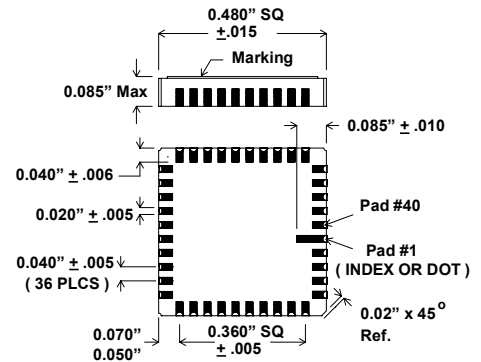
|               |            |
|---------------|------------|
| START-UP TIME |            |
| < 10 MHz      | 20 mS Max. |
| ≥ 10 MHz      | 15 mS Max. |

|  |                            |
|--|----------------------------|
| FREQUENCY STABILITY Vs. VOLTAGE<br>(for 10% change in Voltage) | ± 0.0005% ( ± 5 PPM ) Max. |
|--|----------------------------|

|                |                                   |
|----------------|-----------------------------------|
| AGING @ +25 °C | ± 0.0005% ( ± 5 PPM ) / year Max. |
|----------------|-----------------------------------|

PACKAGE, SEAL & LEAD FINISH      Conforms with the Requirements of MIL-PRF-55310

**Contact Xsis Engineering for special requirements such as, Output Symmetry, Start-up Time, Frequency Accuracy, Complementary Outputs, Multiple Outputs, etc.**



| Pad #      | Function        |
|------------|-----------------|
| 4          | B+              |
| 10         | B+              |
| 31         | GND             |
| 32         | Enable (Option) |
| 37         | GND             |
| 39         | OUTPUT          |
| All others | NC              |

## ORDERING INFORMATION ( Select from options below ) :

**XE10** - **1** [ ] [ ] [ ] - [ ] - FREQUENCY

Frequency Stability

- 1 = ± 0.1%
- 2 = ± 0.05%
- 3 = ± 0.01%
- 4 = ± 0.005%
- 5 = ± 0.002% \*

\* Option 5 not available for - 55 °C to +125 °C

Operating Temperature Range

- 1 = 0 °C to + 70 °C
- 2 = - 30 °C to + 85 °C
- 3 = - 55 °C to +125 °C

Add Suffix " 883B " for Mil-Screened Option

Add Suffix " G " for Enable/Disable Option \*\*

\*\* Enable/Disable Input is on Pad 32.  
A "low" level at the input disables the output.

**EXAMPLE: XE10-143-883B - 24.000 MHz = XE10 Package, TTL, ± 0.005% over -55 °C to +125 °C, Mil-Screened, and 24.000 MHz**