

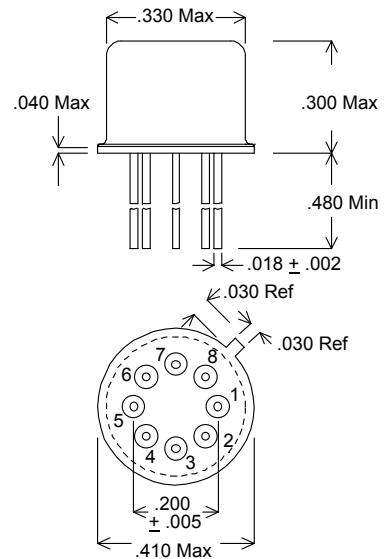


# XE20 - L00 SERIES ( HC/ACMOS/TTL ), 3.3 VDC

## STANDARD SPECIFICATIONS

Frequency Range	400 KHz to 100 MHz
Frequency Accuracy @ + 25 °C	$\pm 0.0015\%$ ( $\pm 15$ PPM )
Frequency Stability Vs. Temperature	See Options Below
Operating Temperature Range	See Options Below
Input Voltage	+ 3.3 VDC $\pm 10\%$

Input Current @ +5.0 VDC ( No Load )	
500 KHz to 8.0 MHz	3 mA Max.
8.1 MHz to 16.0 MHz	6 mA Max.
16.1 MHz to 32.0 MHz	10 mA Max.
32.1 MHz to 60.0 MHz	20 mA Max.
60.1 MHz to 100.0 MHz	30 mA Max.



All Dimensions are in inches.

Output	HC/ACMOS/TTL
Load	10 K $\Omega$ in parallel with 15 pf or 10 TTL
Symmetry: @ 50% Output Level	
500 KHz to 30.0 MHz	55/45% Max
30.1 MHz to 100.0 MHz	60/40% Max.

Rise & Fall Times ( 10% to 90% Level )	
$\leq 20$ MHz	6 nS Max.
$> 20$ MHz	3 nS Max.

Enable/Disable See Options Below

Start-Up Time 5 mS Max.

Frequency Stability Vs. Voltage  $\pm 0.0004\%$  (  $\pm 4$  PPM ) Max.  
(for 10% change in Voltage)

Aging @ +25 °C  $\pm 5$  PPM Max. first year,  $\pm 2$  PPM Max./ Yr. thereafter

Package, Seal & Lead Finish Conforms to the Requirements of MIL-PRF-55310

Pin #	Function
3	E/D (Optional)
4	GND/CASE
5	OUTPUT
8	B+
All Others	N/C

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

### ORDERING INFORMATION ( Select from options below ) :

**XE20 - L** [ ] [ ] [ ] - [ ] - **FREQUENCY**

#### Frequency Stability

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

\* Option 5 not available for - 55 °C to +125 °C  
& - 55 °C to +105 °C

#### Operating Temperature Range

- 1 = 0 °C to + 70 °C
- 2 = - 30 °C to + 85 °C
- 3 = - 55 °C to +125 °C
- 4 = - 55 °C to +105 °C
- 5 = - 40 °C to + 95 °C

● Add Suffix " 883B " for Mil-Screened Option

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

\*\* **Enable/Disable Input:** A "low" level at the input disables the output to a HI-Z state. Enable/disable input has internal pull-up.

**EXAMPLE: XE20 -L43 - 883B - 24.000 MHz = HCMOS Output,  $\pm 0.005\%$  over -55 °C to +125 °C, Mil - Screened , and Output Frequency of 24.000 MHz**