05/10

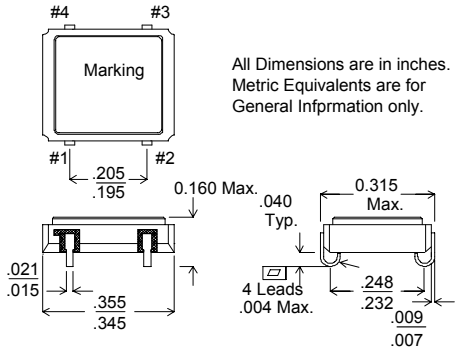
XE40 - L00 SERIES (HC/ACMOS/TTL), 3.3 VDC
SURFACE MOUNT "J" LEAD PACKAGE

(Similar to M55310/34)

Frequency Range	450 KHz to 165 MHz
Frequency Accuracy @ + 25 °C	± 15 PPM
Frequency Stability Vs. Temperature	See Options Below
Operating Temperature Range	See Options Below
Input Voltage	+ 3.3 VDC ± 10%

Input Current @ +3.30 VDC (No Load)	
450 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	35 mA Max.
100.1 MHz to 165.0 MHz	60 mA Max.

Output	HC/ACMOS/TTL
Load	10 KΩ in parallel with 15 pf or 10 TTL
Symmetry: @ 50% Output Level	
< 40 MHz	55/45% Max
≥ 40 MHz	60/40% Max.
Rise & Fall Times (10% to 90% Level)	
< 100 MHz	4 nS Max.
≥ 100 MHz	3 nS Max.
Enable/Disable	See Options Below
Start-Up Time	5 mS Max.
Phase Jitter (10 KHz to 20 MHz Integrated)	0.15 pS rmsTypical
Frquency Stability Vs. 10% change in Voltage	± 4 PPM Max.
Aging @ +25 °C	± 3 PPM Max. first year, ± 2 PPM Max./ Yr. thereafter
Package, Seal & Lead Finish	Conforms to the Requirements of MIL-PRF-55310



All Dimensions are in inches.
Metric Equivalents are for
General Infprmation only.

Pad #	Function
1	E/D (Optional)
2	GND/CASE
3	OUTPUT
4	V_{DD}

Inches		mm	
.345	.355	8.76	9.02
-	.315	-	8.00
.232	.248	5.89	6.30
.195	.205	4.95	5.21
-	.160	-	4.06
-	.040	-	1.02
.015	.021	.38	.53
.007	.009	.18	.23
-	.004	-	.10

Contact Xsis Engineering for any other special requirements.

ORDERING INFORMATION (Select from options below) :

XE40 – L [ ] [ ] [ ] – [ ] – FREQUENCY

Frequency Stability

1 = ± 0.1%
2 = ± 0.05%
3 = ± 100 PPM
4 = ± 50 PPM
5 = ± 20 PPM*
6 = ± 10 PPM*

*Options 5 and 6 are not available for all operating temperature range options

Operating Temperature Range

1 = 0 °C to + 70 °C
2 = - 40 °C to + 85 °C
3 = - 55 °C to +125 °C
4 = - 55 °C to +105 °C
5 = - 40 °C to + 95 °C
6 = - 20 °C to + 70 °C

G = Enable/Disable, Leave Blank Otherwise

M = Mil-Screening, Leave Blank Otherwise.

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: XE40 – L43G - M - 24.000 MHz = HC/ACMOS/TTL Output, with Enable/ Disable Option, ± 50 PPM over -55 °C to +125 °C, Mil - Screened , 24.000 MHz