

**PACKAGE DIMENSIONS (mm)**

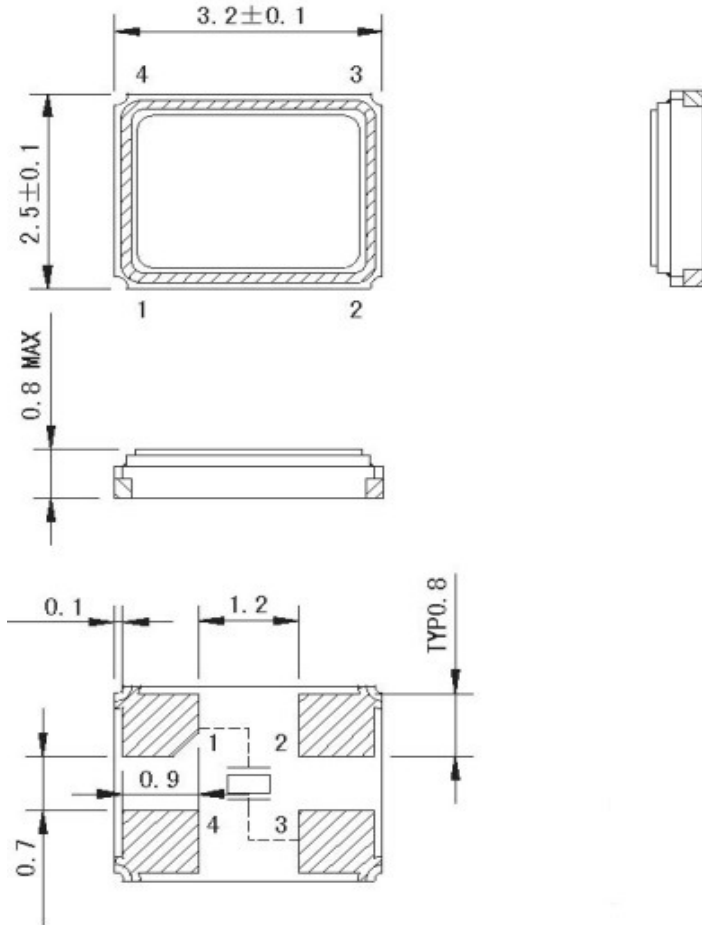


Figure 1) Top, Side, Bottom Views and Land

\* This crystal has been qualified by Linear Technology for use with the Eterna mesh-networking family of products. Network operation relies on timing more precise than provided by the crystal accuracy itself, requiring that crystals be characterized and qualified.

| REVISIONS |             |      |          |
|-----------|-------------|------|----------|
| REV       | DESCRIPTION | DATE | APPROVED |
|           |             |      |          |

**ELECTRICAL SPECIFICATIONS**

Frequency: 20.000000 MHz  
 Frequency Tolerance @ +25°C: ± 10 ppm Max.  
 Frequency Stability -40 to +85°C: ± 30 ppm Max.  
 Crystal Cut: AT Strip  
 Load Capacitance (CL): 10 pF  
 Recommended Drive Level: 100 µW Max.  
 Effective Series Resistance: 50 Ω Max.  
 Shunt Capacitance: 5 pF Max.  
 Mode of Operation: Fundamental  
 Aging (first year): ± 3 ppm/ Max.  
 Storage Temperature: -60 to +105°C  
 Operating Temperature: -60 to +105°C  
 Package Type: ECX-32

**ECS Part Number: ECS-200-CDX-0998**



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| SIGNATURES              | DATE      | TITLE  |
|-------------------------|-----------|--|
| DRN <b>BL</b>           | 8/25/2014 | <b>20.000 MHz Crystal, ECX-32<br/>Pb Free/RoHS Compliant</b> |
| CHK <b>RC</b>           | 8/25/2014 |  |
| APP <b>DK</b>           | 8/25/2014 |  |
|                         |           | SIZE<br>A  |
| <b>Dimensions in mm</b> |           | DWG NO. ECS-200-CDX-0998                                     |
|                         |           | REV  |
|                         |           | CAGE CODE: 1G8B7   |
|                         |           | SHEET 1 OF 1   |