

# Ceramic Surface Mount Crystal

- *Smallest package dimensions available*
- *Wide fundamental mode*
- *Very low drive level*

**Series CX325**



**Part Numbering Example: CX325 - Z - A1 B2 C2 100 - 20.0 D18**

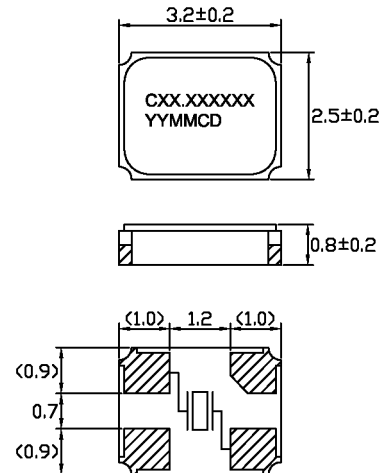
| CX325  | Z                                      | A1*   | B2  | C2   | 100                | 20.0      | D18                           |
|--------|--|---|---|--|--------------------|-----------|-------------------------------|
| SERIES | ADDED FEATURES                         | OPERATING TEMP.   | STABILITY   | TOLERANCE  | RESISTANCE         | FREQUENCY | LOAD CAP.                     |
| CX325  | BLANK = BULK PACK<br>Z = TAPE AND REEL | A0 = -10°C ~ +60°C<br>A1 = -10°C ~ +70°C<br>A2 = -40°C ~ +85°C<br>A3 = -55°C ~ +125°C | B1 = ±100<br>B2 = ± 50<br>B3 = ± 30<br>B4 = ± 10<br>B9 = ± 20 | C1 = ±100<br>C2 = ± 50<br>C3 = ± 30<br>C4 = ± 10 | SEE CHART<br>BELOW |           | D16,18,20,ETC.<br>DS = SERIES |

*\*NOTE: The above ABC combinations cover basic specification options. We tailor our crystal specifications to meet customer requirements. Please contact our sales department if you don't see exactly what you need.*

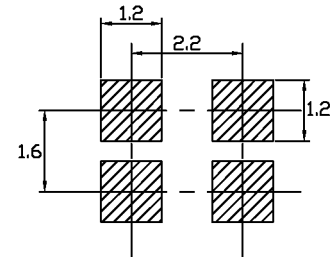
## Specifications:

|                               |  |               |
|-------------------------------|--|---------------|
| <b>Frequency Range:</b>       | 20.000 ~ 55.000 MHz  | (Fundamental) |
| <b>Operating Temperature:</b> | -10°C ~ +60°C  |               |
| <b>Frequency Stability:</b>   | ± 30 ppm   |               |
|                               | ± 50 ppm   | Standard      |
|                               | ± 100 ppm  |               |
| <b>Frequency Tolerance:</b>   | ± 30 ppm   |               |
| (at 25°C)                     | ± 50 ppm   | Standard      |
|                               | ± 100 ppm  |               |
| <b>Load Capacitance:</b>      | 16 pF or series<br>Other values are available  |               |
| <b>Standard:</b>              | Mode: Fundamental<br>Shunt Capacitance: 7 pF Max<br>Aging: ± 5 ppm/year<br>Drive Level: 10 µW (100 µW Max)<br>Packaging: Tape and Reel |               |

## CX325



### RECOMMENDED SOLDER PAD LAYOUT



## Resistance Chart: All resistances are maximum

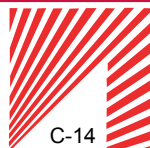
| EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE) |         |                  |
|--|---------|------------------|
| Frequency MHz  | ESR (Ω) | Oscillation Mode |
| 20.0 ~ 29.999  | 100     | Fundamental      |
| 30.0 ~ 55.999  | 50      | Fundamental      |

Cardinal Components, Inc.

155 Route 46 West

Wayne, NJ 07470

Rev: C-090414-11



TEL: (973)785-1333

E-MAIL: sales@cardinalxtal.com

WEB: http://www.cardinalxtal.com