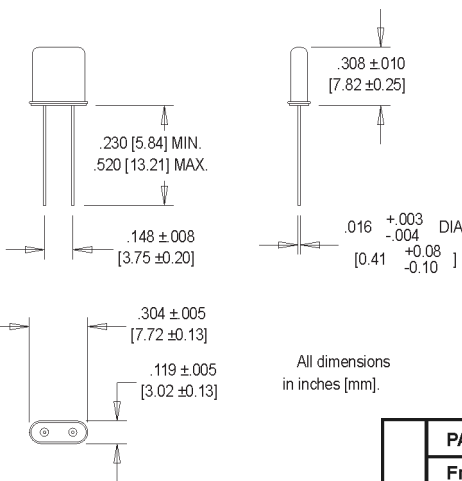


- Former **Champion** Product  
TECHNOLOGIES, INC.
- Low-Jitter, Precision Clocks, VCXO's and TCVCXO's



### Ordering Information

Product Series: CIM X X 00.0000 MHz

Load Capacitance:  
 A: Series  
 B: 32 pF  
 C: 20 pF

Temperature Range:  
 Blank: 0°C to +70°C  
 M: -40°C to +85°C

Frequency (customer specified)

|                           | PARAMETER                  | Symbol   | Min.                                  | Typ. | Max.                               | Units   | Condition  |
|---------------------------|----------------------------|--|---------------------------------------|------|------------------------------------|---|--|
| Electrical Specifications | Frequency Range            | F  | 51.840                                |      | 155.520                            | MHz   | Nominal  |
|                           | Frequency Tolerance        |  | -25                                   |      | +25                                | ppm   | 25°C ±3°C @ CL=32pF                                    |
|                           | Pullability                |  |                                       |      | 105                                | ppm   | (Fo - Fs) @ 32pF                                       |
|                           | Operating Temperature      |  | -40                                   |      | +85                                | °C  |  |
|                           | Temperature Stability      |  | -20                                   |      | +20                                | ppm   | re: 25°C, 0°C to +70°C                                 |
|                           | Series Resistance          | Rs   |                                       |      | 30                                 | Ω   | All conditions   |
|                           | Standard Load Capacitance  | Cl   |                                       |      | 32                                 | pF  |  |
|                           | Shunt Capacitance          | Co   |                                       | 3.0  |                                    | pF  | Frequency dependent                                    |
|                           | Motion Capacitance         | Cm   |                                       | 8.0  |                                    | pF  | CL=32pF, freq. dependent                               |
|                           | Aging                      |  |                                       |      | 4.0                                | ppm   | @ 25°C, first year                                     |
|                           | Environmental              | Temperature Cycle                                      | MIL-STD-883, Method 1010, Condition B |      |                                    |   | -55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell |
| Mechanical Shock          |                            | MIL-STD-883, Method 2002, Condition B                  |                                       |      |                                    | 1500 g's  |  |
| Vibration                 |                            | MIL-STD-883, Method 2007, Condition B                  |                                       |      |                                    | 20-2000 Hz; 0.06 inch; 15 g's; 3 planes             |  |
| Humidity Steady State     |                            | MIL-STD-202, Method 103                                |                                       |      |                                    | 40°C; 90%-95% R.H.; 56 days                         |  |
| Thermal Shock             |                            | MIL-STD-883, Method 1011.7, Condition B                |                                       |      |                                    | 100°C to 0°C; Water-to-Water; 15 cycles             |  |
| Electrostatic Discharge   |                            | MIL-STD-883, Method 3015, Class II                     |                                       |      |                                    | 2 KV to 4 KV Threshold                              |  |
| Solderability             |                            | MIL-STD-883, Method 2022.2                             |                                       |      |                                    | Solder dip; Meniscograph Criteria                   |  |
| Hermeticity               |                            | MIL-STD-883, Method 1014.8, Cond. A1                   |                                       |      |                                    | Mass spectro. 2 x 10 <sup>-8</sup> atmos. CC/sec He |  |
| Resistance to Soldering   |                            | Maximum wave soldering conditions: +260°C for 10 secs. |                                       |      |                                    |   |  |
| Lead Integrity            |                            | MIL-STD-883, Mtd. 2004.5, Cond. A, B1                  |                                       |      |                                    | Lead tension & bend stress                          |  |
| Marking Permanence        |                            | MIL-STD-883, Method 2015.8                             |                                       |      |                                    | Resistance to solvents                              |  |
| Life Test                 | MIL-STD-883, Method 1005.6 |  |                                       |      | 125°C, powered, 1000 hours minimum |   |  |

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

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