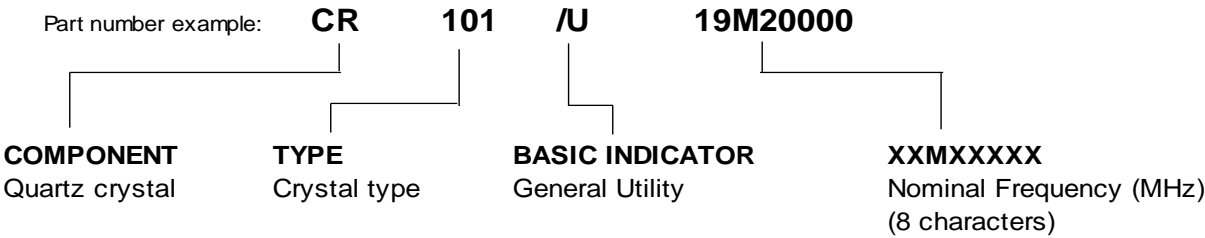
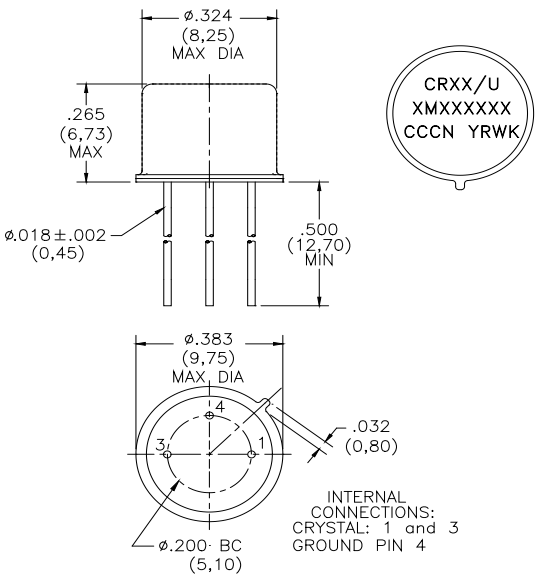


CROVEN CRYSTALS MIL-PRF-3098 QPL crystals are available in a variety of packages and frequencies to provide established reliability quartz crystals for high reliability, demanding applications.

CR101/U

| MIL-PRF-3098 Environmental Specifications |                           |         |
|---|---------------------------|---------|
| Shock<br>MIL-STD-202 M201 Cond C          | Maximum Frequency Change  | ± 5 ppm |
|   | Maximum Resistance Change | ± 10%   |
| Vibration<br>MIL-STD-202 M204 Cond A      | Maximum Frequency Change  | ± 5 ppm |
|   | Maximum Resistance Change | ± 10%   |
| Thermal Shock<br>MIL-STD-202 M107 Cond B  | Maximum Frequency Change  | ± 5 ppm |
|   | Maximum Resistance Change | ± 10%   |
| Aging 30 days at +85 °C                   | Maximum Frequency Change  | ± 5 ppm |



| SPECIFICATION *  | Frequency Range<br>7.000000 to 20.000000 MHz              |
|--|---|
| Mode of Oscillation  | Fundamental   |
| Operating Temperature Range                                | -55 to +105 °C  |
| Total Frequency Tolerance Over Operating Temperature Range | ± 50 ppm  |
| Load Capacitance   | 30 pF   |
| Maximum Series Resistance Over Operating Temperature Range | 30 ohms @ 7.00 to 10.00 MHz<br>25 ohms @ 10.00+ to 20 MHz |
| Maximum Rated Drive Level                                  | 1 mW  |

\* MIL-PRF-3098/103 CR101/U