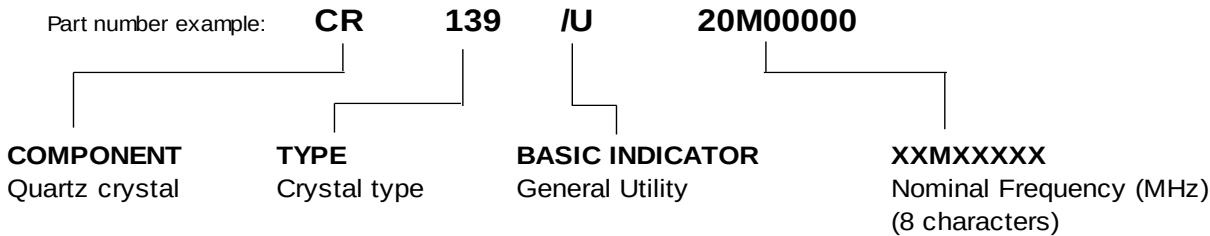
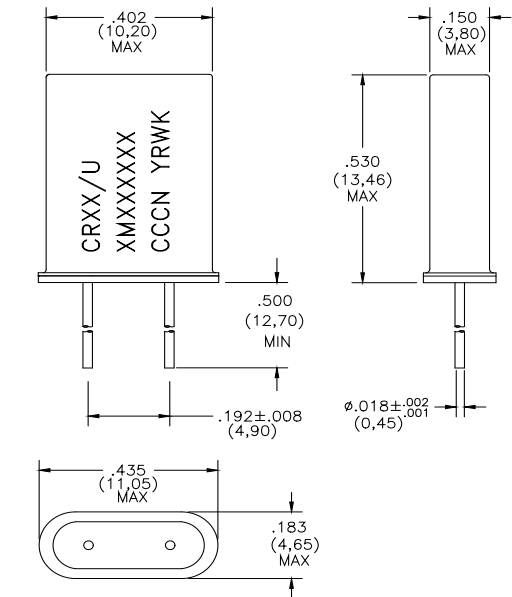


CROVEN CRYSTALS MIL-PRF-3098 QPL crystals are available in a variety of packages and frequencies to provide established reliability quartz crystals for high reliability, demanding applications.

CR139/U

MIL-PRF-3098 Environmental Specifications		
Shock MIL-STD-202 M201 Cond C	Maximum Frequency Change	± 5 ppm
	Maximum Resistance Change	± 10%
Vibration MIL-STD-202 M204 Cond A	Maximum Frequency Change	± 5 ppm
	Maximum Resistance Change	± 10%
Thermal Shock 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 20.000000 to 22.000000 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	40 ohms
Maximum Rated Drive Level	1 mW

* MIL-PRF-3098/118 CR139/U