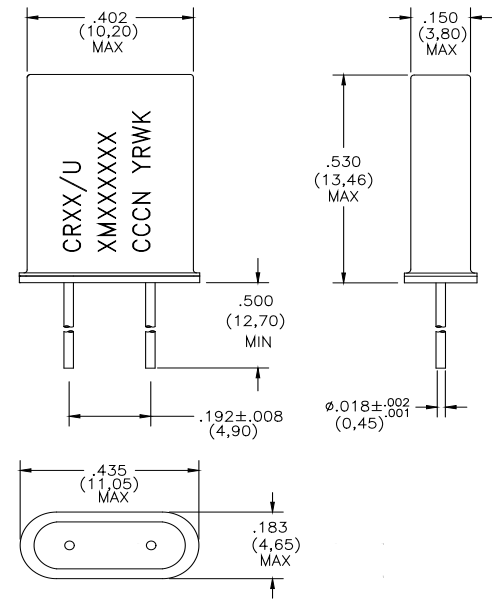


CROVEN CRYSTALS MIL-PRF-3098 QPL crystals are available in a variety of packages and frequencies to provide established reliability quartz crystals for high reliability, demanding applications.

CR69/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



Part number example: **CR 69 /U 5M120000**

**COMPONENT**  
Quartz crystal

**TYPE**  
Crystal type

**BASIC INDICATOR**  
General Utility

**XXMXXXXX**  
Nominal Frequency (MHz)  
(8 characters)

SPECIFICATION *	Frequency Range 2.900000 to 25.000000 MHz
Mode of Oscillation	Fundamental
Operating Temperature Range	-55 to +105 °C
Total Frequency Tolerance Over Operating Temperature Range	± 20 ppm from -40 to +90 °C ± 30 ppm from -55 to +105 °C
Load Capacitance	30 pF
Maximum Series Resistance Over Operating Temperature Range	See Table 1
Maximum Rated Drive Level	1 mW

\* MIL-PRF-3098/47 CR69/U

Table 1: Equivalent Resistance

Frequency Range (MHz)	Maximum Resistance (ohms)	Frequency Range (MHz)	Maximum Resistance (ohms)
2.90 to 3.75	180	6.00+ to 7.00	50
3.75+ to 4.75	120	7.00+ to 10.00	30
4.75+ to 6.00	75	10.00+ to 25.00	25