

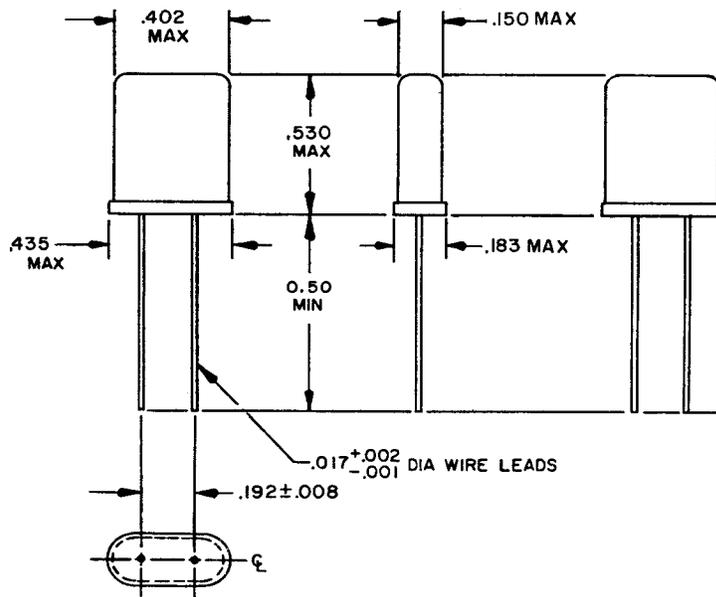
PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR60/U

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-3098.

Pertinent characteristics: 5 MHz to 20 MHz; fundamental; noncontrolled; series resonance.



Inches	mm	Inches	mm	Inches	mm
.001	.03	.150	3.81	.435	11.05
.002	.05	.183	4.65	.500	12.70
.008	.20	.192	4.88	.530	13.46
.017	.43	.402	10.21		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Marking to be in accordance with MIL-PRF-3098.

FIGURE 1. Crystal unit - CR60/U.

MIL-PRF-3098/38G

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 5 MHz to 20 MHz, inclusive.

Capacitance, shunt: 7 pF, maximum.

Frequency tolerance (operating temperature range): ± 50 parts per million (ppm).

Equivalent resistance: See table I.

Mode of oscillation: Fundamental.

Rated drive level: 1.0 mW, maximum.

Resonance: Series.

Operating temperature range (noncontrolled): -55°C to $+105^{\circ}\text{C}$, inclusive.

Shock:

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 10 percent.

Vibration: Method 204 of MIL-STD-202, test condition A.

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 10 percent.

Thermal shock:

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 10 percent.

Aging:

Frequency change permitted: ± 5 ppm.

TABLE I. Equivalent resistance.

Frequency range, inclusive	Maximum resistance
<u>MHz</u>	<u>Ohms</u>
5 to 7	50
7+ to 10	30
10+ to 15	25
15+ to 20	20

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

Army - CR
 Navy - EC
 Air Force - 11
 DLA - CC

Review activities:

Army - AR, MI
 Navy - AS, CG, MC, OS, SH
 Air Force - 19, 99

Preparing activity:

Army - CR

Agent:

DLA - CC

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