

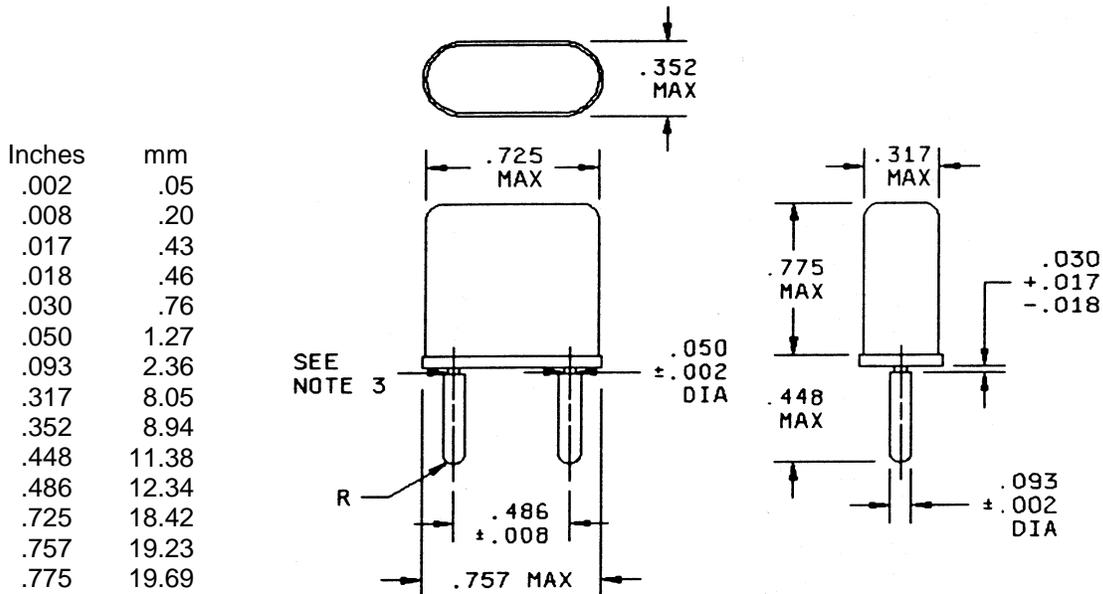
PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR6/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: 2 MHz to 10 MHz; fundamental; noncontrolled; antiresonance.



NOTES:

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

FIGURE 1. Crystal unit - CR6/U.

MIL-PRF-3098/78D

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 2.0 MHz to 10.0 MHz, inclusive.

Mode of oscillation: Fundamental.

Rated drive level: 1.0 mW, maximum.

Operating temperature range (noncontrolled): -40°C to +70°C, inclusive.

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

Equivalent resistance: See table I.

Antiresonance, load capacitance: 13.0 pF ±0.5 pF.

Shock (specified pulse):

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

TABLE I. Equivalent resistance.

Frequency range, inclusive	Maximum resistance
<u>MHz</u>	<u>Ohms</u>
2.0 to 2.1	940
2.1+ to 2.2	860
2.2+ to 2.25	820
2.25+ to 2.3	780
2.3+ to 2.4	720
2.4+ to 2.5	660
2.5+ to 2.6	600
2.6+ to 2.7	560
2.7+ to 2.8	520
2.8+ to 3.0	450
3.0+ to 3.2	400
3.2+ to 3.4	360
3.4+ to 3.7	300
3.7+ to 4.0	250
4.0+ to 4.5	200
4.5+ to 5.1	160
5.1+ to 6.2	110
6.2+ to 6.7	90
6.7+ to 7.2	80
7.2+ to 7.5	70
7.5+ to 8.0	65
8.0+ to 9.0	50
9.0+ to 10.0	45

Vibration: Method 201 of MIL-STD-202.

MIL-PRF-3098/78D

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 10 percent.

Thermal shock:

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 10 percent.

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 - 85

Review activities:

Army - AR, MI

Navy - AS, MC, SH

Air Force - 17, 19

Preparing activity:

Army - CR

Agent:

DLA - CC

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