

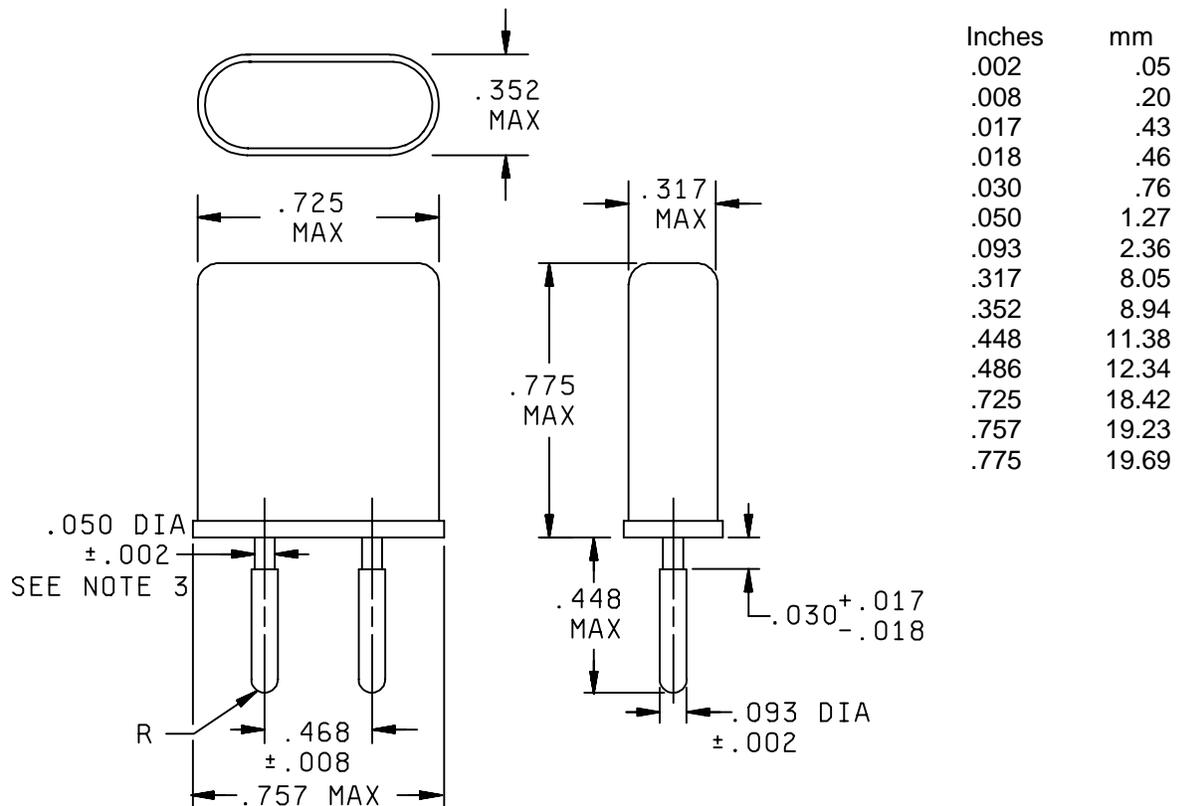
PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR8/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: 1 MHz to 10 MHz; fundamental; noncontrolled; series resonance.



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 - CR8/U.

REQUIREMENTS:

- Dimensions, marking, and configuration: See figure 1.
- Frequency range: 1 MHz to 10 MHz, inclusive.
- Mode of oscillation: Fundamental.
- Rated drive level: 1.0 mW, maximum.
- Operating temperature ranges (noncontrolled): -40°C to 70°C, inclusive.
- Frequency tolerances (operating temperature range):  $\pm 50$  ppm.
- Equivalent resistance: See table I.

TABLE I. Equivalent resistance.

Frequency range, inclusive	Maximum resistance
<u>MHz</u>	<u>Ohms</u>
1.0+ to 2.0	450
2.0+ to 3.0	250
3.0+ to 4.0	150
4.0+ to 5.0	100
5.0+ to 6.0	75
6.0+ to 7.0	55
7.0+ to 10.0	50

Shock (specified pulse):

- Frequency change permitted:  $\pm 5$  ppm.
- Equivalent resistance:  $\pm 10$  percent.

Vibration: Method 201, MIL-STD-202.

- Frequency change permitted:  $\pm 5$  ppm.
- Equivalent resistance change permitted:  $\pm 10$  percent.

Thermal shock:

- Frequency change permitted:  $\pm 5$  ppm.
- Equivalent resistance change permitted:  $\pm 10$  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.

MIL-PRF-3098/111C

Custodians:

Army - CR  
Navy - EC  
Air Force -85

Review activities:

Army - AR, MD, MI, SM  
Navy - AS, MC, SH  
Air Force - 17, 19

Preparing activity:

Army - CR

Agent:

DLA - CC

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