

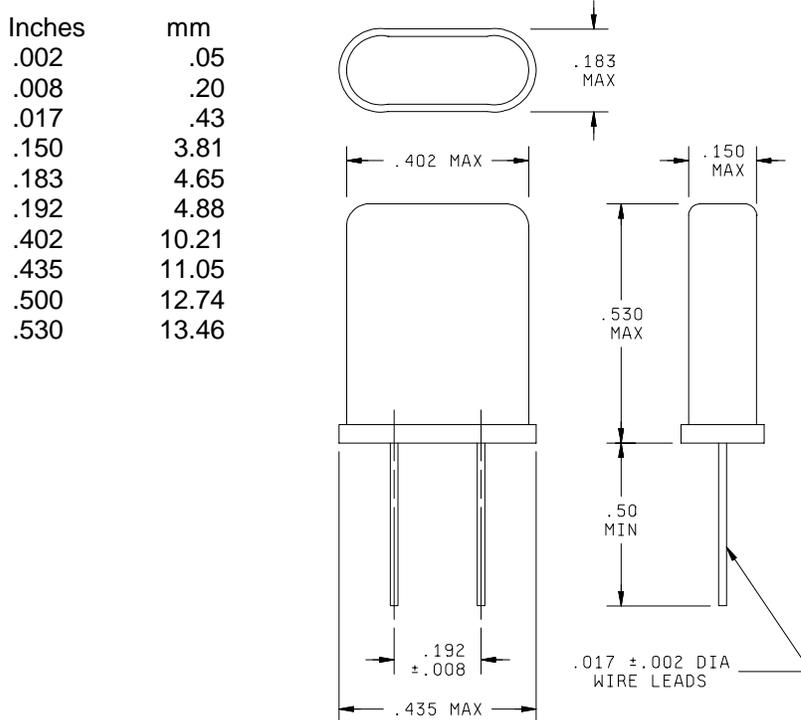
PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR106/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: 10.5 MHz to 11.5 MHz; fundamental; noncontrolled; antiresonance.



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 - CR106/U.

MIL-PRF-3098/82C

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 10.5 MHz to 11.5 MHz, inclusive.

Antiresonance load capacitance: 32.0 pF  $\pm$ 0.5 pF, maximum.

Capacitance, shunt: 7.0 pF, maximum.

Mode of oscillation: Fundamental.

Rated drive level: 1.0 mW, maximum.

Equivalent resistance: 25 ohms, maximum.

Operating temperature range (noncontrolled): -55°C to +105°C, inclusive.

Frequency tolerance:  $\pm$ 50 ppm.

Frequency and equivalent resistance: Method A, MIL-PRF-3098.

Shock (specified pulse):

Frequency change permitted:  $\pm$ 5 ppm.

Equivalent resistance change:  $\pm$ 10 percent.

Vibration: Method 201, MIL-STD-202.

Frequency change permitted:  $\pm$ 5 ppm.

Equivalent resistance change permitted:  $\pm$ 10 percent.

Aging:

Frequency change permitted:  $\pm$ 5 ppm.

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:

Air Force - 17, 99

Preparing activity:

Army - CR

Agent:

DLA - CC

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