

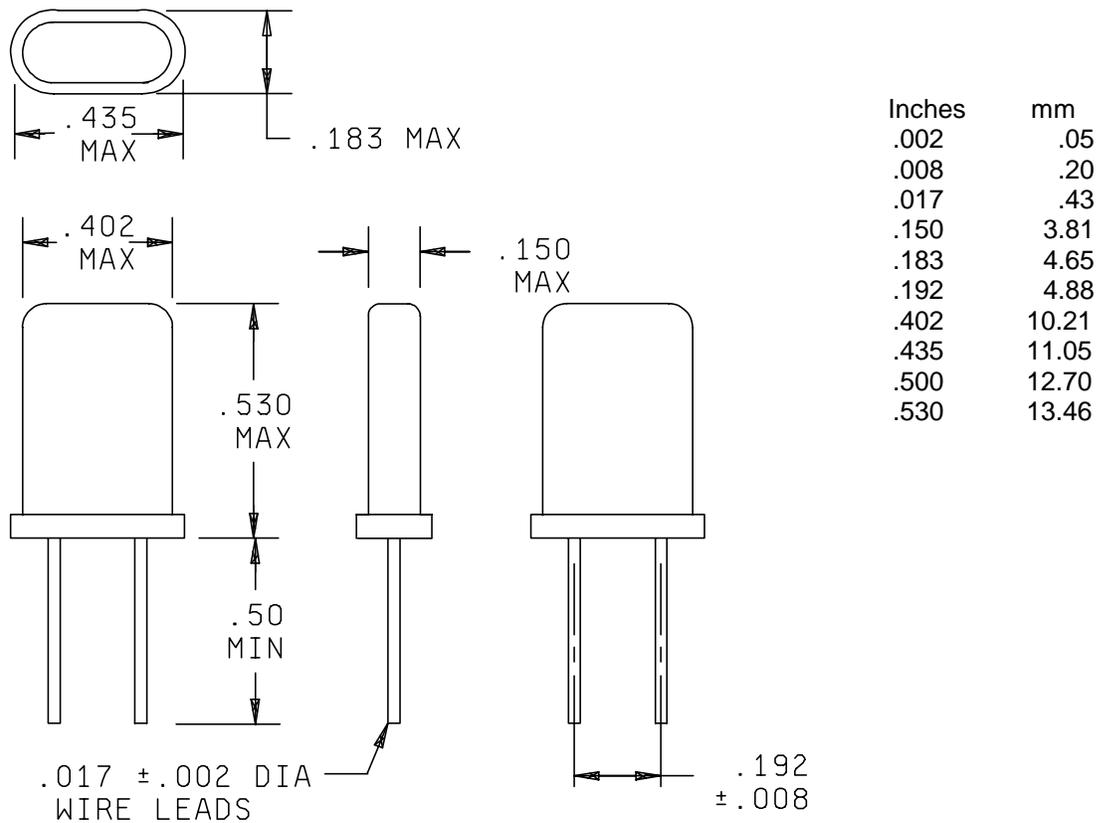
PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR136/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: 8 MHz to 10 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 - CR136/U.

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 8 MHz to 10 MHz, inclusive.

Capacitance, shunt: 6.0 pF +0.5 pF, -1.0 pF.

Mode of oscillation: Fundamental.

Rated drive level: 1.0 mW, maximum.

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

Operating temperature ranges:

Room temperature: +25°C to +30°C, inclusive.

Primary operating temperature range: +10°C to +25°C and +30°C to +80°C, inclusive.

Secondary operating temperature range: -40°C to +10°C and +80°C to +90°C, inclusive.

Frequency tolerances:

Room temperature:  $\pm$ 10 ppm.

Primary operating temperature range:  $\pm$ 25 ppm.

Secondary operating temperature range:  $\pm$ 50 ppm.

Equivalent resistance: 35 ohms, maximum.

Shock (specified pulse):

Frequency change permitted:  $\pm$ 5 ppm.

Equivalent resistance:  $\pm$ 10 percent.

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

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.

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.

MIL-PRF-3098/115C

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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