

INCH POUND

MIL-PRF-3098/34G

27 August 1997

SUPERSEDING

MIL-C-3098/34F

1 November 1993

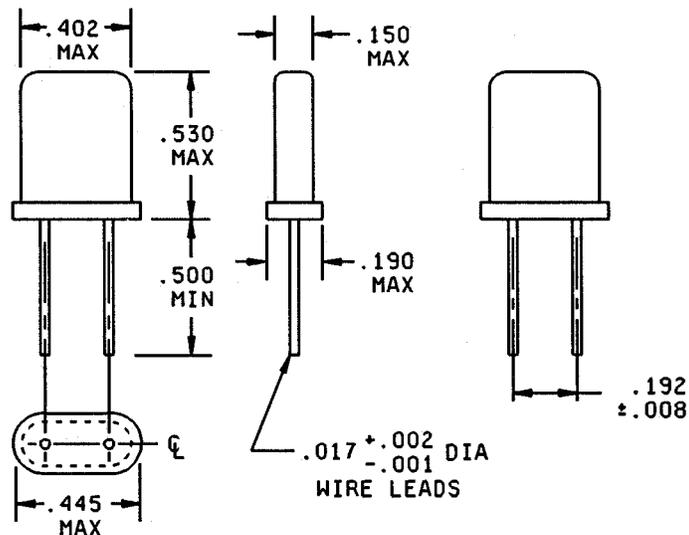
PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR56/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: 50 MHz to 125 MHz; fifth mechanical overtone; noncontrolled; series resonance.



Inches	mm	Inches	mm
.001	.03	.192	4.88
.002	.05	.402	10.21
.008	.20	.445	11.30
.017	.43	.500	12.70
.150	3.81	.530	13.46
.190	4.82		

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 - CR56/U.

AMSC N/A

1 of 3

FSC 5955

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 50 MHz to 125 MHz, inclusive.

Capacitance, shunt: 7 pF, maximum.

Frequency tolerances:

Operating temperature range: ± 50 ppm.

Equivalent resistance:	<u>MHz</u>	<u>Ohms, maximum</u>
	50 to 90	50
	90+ to 125	60

Mode of oscillation: Fifth mechanical overtone.

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

Drive level, rated: 1.0 mW, maximum.

Resonance: Series.

Shock (specified pulse):

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.

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

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Custodians:

Army - CR
Navy - EC
Air force - 85

Review activities:

Army - AR, MI, SM
Navy - AS, CG, MC, OS, SH
Air Force - 17, 19, 99
DLA - CC

Preparing activity:

Army - CR

Agent:

DLA - CC

(Project 5955-0697-17)