INCH-POUND
MIL-PRF-3098/72F
7 January 2010
SUPERSEDING
MIL-PRF-3098/72E
12 January 2005

### PERFORMANCE SPECIFICATION SHEET

# CRYSTAL UNIT, QUARTZ, CR97/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 sheet and MIL-PRF-3098.

Pertinent characteristics: 8 MHz to 10 MHz; fundamental; noncontrolled; antiresonance.

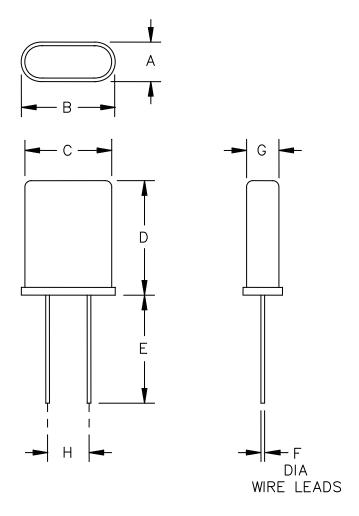


FIGURE 1. Crystal unit - CR97/U.

AMSC N/A FSC 5955

	Inches		mm	
Ltr	Min	Max	Min	Max
Α		.183		4.65
В		.435		11.05
С		.402		10.21
D		.530		13.46
Е	.500		12.71	
F	.015	.019	0.38	0.48
G		.150		3.81
Н	.184	.200	4.67	5.08

### 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 - CR97/U - Continued.

### REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 8.0 MHz to 10.0 MHz, inclusive.

Capacitance, shunt: 7.0 pF, maximum.

Mode of oscillation: Fundamental.

Rated drive level: 1.0 mW maximum.

Operating temperature range (noncontrolled): -40°C to +85°C, inclusive.

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

Equivalent resistance: 35 ohms, maximum.

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:  $\pm 5$  ppm.

Equivalent resistance change permitted: ±10 percent.

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Thermal shock:

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

Aging:

Frequency change permitted: ±5 ppm.

Part or Identifying Number (PIN): CR97/U (followed by specified frequency), see 1.2 of MIL-PRF-3098.

Reference documents. In addition to MIL-PRF-3098, this document references the following:

MIL-STD-202

The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:

Army - CR

Navy - EC

Air Force - 99

DLA - CC

Review activities:

Air Force - 19, 84

Preparing activity:

Army - CR

Agent:

DLA - CC

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