



DEFENSE LOGISTICS AGENCY
LAND AND MARITIME
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30 August 2016

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft Notification

Document	Project Number
MIL-PRF-3098/68G AM 1	5955-2016-038
MIL-PRF-3098/108E AM 1	5955-2016-039

The subject documents are being sent to you for review and comments regarding the following actions:

As there is no QPL source, amendment will add the statement: "Qualification: Not required."

Please provide any comments within the 30-day coordination period. If no comments are received in the allotted coordination period, concurrence is assumed. Draft documents are available at <https://landandmaritimeapps.dla.mil/programs/MilSpec/initialdrafts.aspx>.

Military departments are required to identify their comments as "Essential" or "Suggested". Essential comments that do not meet the requirements of DoD 4120.24-M will be treated as a suggested comment. Military review activities should forward comments to their custodians, or this office as applicable, in sufficient time to allow for consolidating comments.

All comments should be directed to Kurt Anderson, Kurt.Anderson@dla.mil, (614) 692-0506, or DSN 850-0506. If you have further questions or concerns, you may contact me at Michael.Radecki@dla.mil, (614) 692-0561, or DSN 850-0561. Our mailing address, as a last resort, is DLA Land and Maritime-VAT, P.O. Box 3990, Columbus, OH 43218-3990.

/signed/

MICHAEL A. RADECKI
Chief
Electronic Components Branch

NOTE: This draft, dated 30 August, 2016 prepared by DLA-CC has not been approved and is subject to modification.
DO NOT USE PRIOR TO APPROVAL. (Project 5955-2016-038)

INCH-POUND
MIL-PRF-3098/68G
w/AMENDMENT 1
DRAFT
SUPERSEDING
MIL-PRF-3098/68G
7 January 2010

PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR91/U

INACTIVE FOR NEW DESIGN
AFTER 22 JUNE 2016

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: 9.5 MHz to 12.5 MHz; fundamental; noncontrolled; antiresonance.

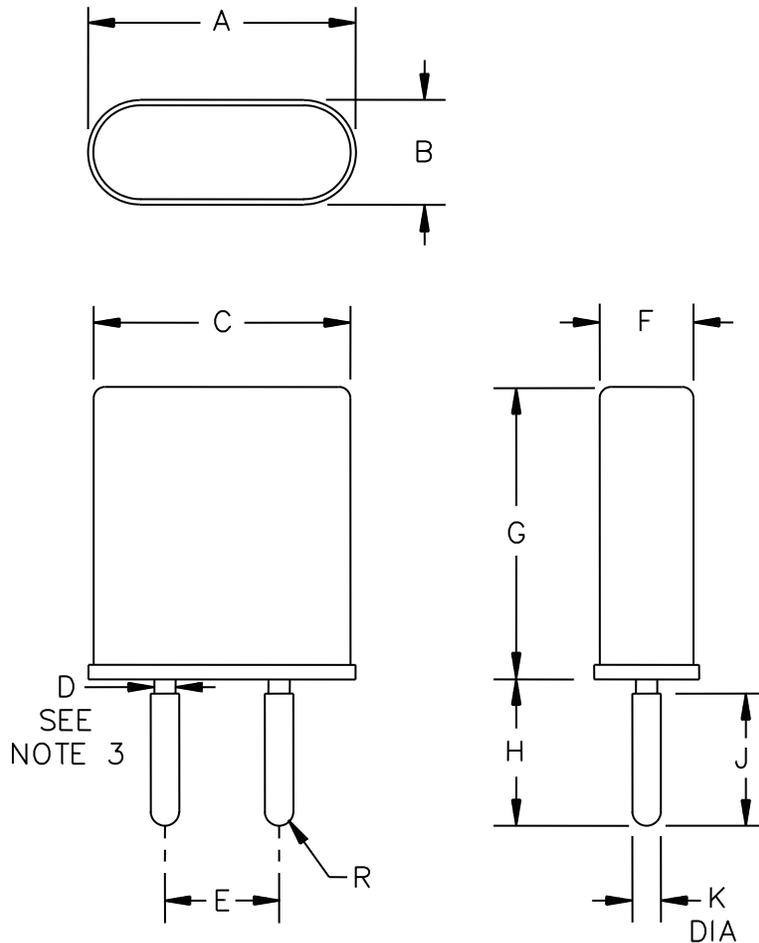


FIGURE 1. Crystal unit - CR91/U.



MIL-PRF-3098/68G
w/AMENDMENT 1

Ltr	Inches		mm	
	Min	Max	Min	Max
A	---	1.170	---	29.72
B	---	.460		11.68
C	---	1.125	---	28.58
D	.091	.095	2.31	2.41
E	.490	.510	12.45	12.95
F	---	.411	---	10.44
G	---	1.282	---	32.56
H	.625	.655	15.87	16.64
J	.568	.588	14.43	14.93
K	.123	.127	3.12	3.22

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 - CR91/U - Continued.

REQUIREMENTS:

Dimensions, marking, and configuration: See [figure 1](#).

Frequency range: 9.5 MHz to 12.5 MHz, inclusive. 1/

Mode of oscillation: Fundamental.

Rated drive level: 1.0 mW maximum.

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

Equivalent resistance: 25 ohms, maximum.

Qualification: Not required. First article testing shall be performed according to the qualification table of MIL-PRF-3098.

Antiresonance, load capacitance: 55.0 pF ± 0.5 pF.

Shock (specified pulse):

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 10 percent.

MIL-PRF-3098/68G
w/AMENDMENT 1

1/ In using equipment, these frequencies are multiplied to the 12th harmonic, which is also known as aircraft frequency.

Vibration: [Method 201 of MIL-STD-202](#).

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 10 percent.

Frequency and equivalent resistance:

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 10 percent.

Aging:

Frequency change permitted: ± 5 ppm.

Part or Identifying Number (PIN): CR91/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-202-201](#)

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
DLA - CC

Preparing activity:
Army - CR

Agent:
DLA - CC

Review activities:
Army - AR, MI
Navy - AS, MC, SH

(Project 5955-2016-038)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.