INCH-POUND

MIL-PRF-3098/59G
w/AMENDMENT 1
23 July 2019

SUPERSEDING
MIL-PRF-3098/59G
7 January 2010

PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR82/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: 50 MHz to 125 MHz; fifth mechanical overtone; noncontrolled; series resonance.

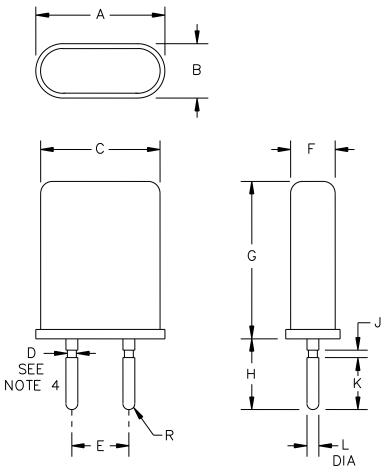


FIGURE 1. Crystal unit - CR82/U.

AMSC N/A FSC 5955



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	Inches		mm	
Ltr	Min	Max	Min	Max
Α	-	.435		11.05
В	-	.183		4.65
С	-	.402		10.21
D	.027	.032	0.69	0.81
Е	.184	.200	4.67	5.08
F	-	.150		3.81
G	-	.530		13.46
Н	.223	.248	5.66	6.30
J	.015	.025	0.38	0.64
K	.165	.175	4.19	4.45
Ĺ	.038	.042	0.97	1.07

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.
- 4. Pin undercut may be omitted.

FIGURE 1. Crystal unit - CR82/U - Continued.

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 50 MHz to 125 MHz, inclusive.

Capacitance, shunt: 7.0 pF, maximum.

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

Equivalent resistance: MHz Ohms, maximum 50 to 90 50

90+ to 125 60

Mode of oscillation: Fifth mechanical overtone.

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

Rated drive level: 1.0 mW, maximum.

Resonance: Series.

Shock (specified pulse):

Frequency change permitted: ±5 ppm.

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Equivalent resistance change permitted: ±10 percent.

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

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

Frequency and equivalent resistance (temperature run):

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

Aging:

Frequency change permitted: ±5 ppm.

Part or Identifying Number (PIN): CR82/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-202-204

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

Custodians: Preparing activity: Army - CR Army - CR

Navy - EC
Air Force - 84
DLA - CC
DLA - CC

Review activities: (Project 5955-2019-019)

Army - AR, MI Navy - AS, MC, SH Air Force - 19

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/.