INCH-POUND MIL-PRF-3098/58J 7 January 2010 SUPERSEDING MIL-PRF-3098/58H 12 January 2005

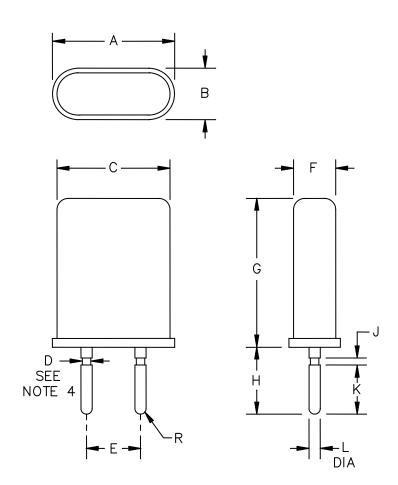
PERFORMANCE SPECIFICATION SHEET

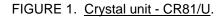
CRYSTAL UNIT, QUARTZ, CR81/U

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: 17 MHz to 65 MHz; third mechanical overtone; noncontrolled; series resonance.





AMSC N/A

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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
L	.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 - CR81/U - Continued.

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 17.0 MHz to 65.0 MHz, inclusive.

Capacitance, shunt: 7.0 pF, maximum.

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

Equivalent resistance: 40 ohms, maximum.

Mode of oscillation: Third 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.

Equivalent resistance change permitted: ±10 percent.

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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.

Part or Identifying Number (PIN): CR81/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: Army - AR, MI Navy - AS, MC, SH Air Force - 19, 84 Preparing activity: Army - CR

Agent: DLA - CC

(Project 5955-2009-067)

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.daps.dla.mil.