INCH-POUND MIL-PRF-3098/122E 28 July 2011 SUPERSEDING MIL-PRF-3098/122D 27 July 2005

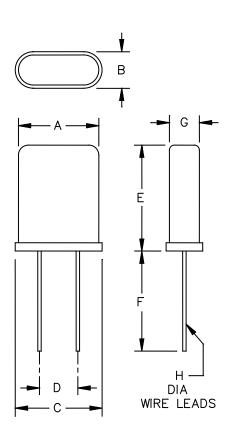
PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR141/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: 48 MHz to 90 MHz; fifth mechanical overtone; noncontrolled; series resonance.



Ltr	Inches		mm	
	Min	Max	Min	Max
Α		.402		10.21
В		.183		4.65
С		.435		11.05
D	.184	.200	4.67	5.08
Е		.530		13.46
F	.50		12.7	
G		.150		3.81
Н	.016	.019	0.38	0.48

NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Marking shall be in accordance with MIL-PRF-3098.

FIGURE 1. Crystal unit - CR141/U.

AMSC N/A FSC 5955

MIL-PRF-3098/122E

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 48.0 MHz to 90 MHz, inclusive.

Frequency tolerance:

Primary operating temperature range: ±25 ppm.

Secondary operating temperature range: ±45 ppm.

Equivalent resistance: 50 ohms.

Mode of oscillator: Fifth mechanical overtone.

Operating temperature ranges:

Primary: -30°C to ±55°C, inclusive.

Secondary: -55°C to -30°C and +55°C to +65°C, inclusive.

Rated drive level: 1.0 mW, maximum.

Resonance: Series.

Capacitance, shunt: 7.0 pF, maximum.

Shock:

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

Vibration: Method 204, 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): For Product Level B, PIN shall be CR141/U or CR141B/U (followed by specified frequency). For Product Level S, PIN shall be CR141S/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 sheet 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.

MIL-PRF-3098/122E

Custodians: Preparing activity: Army - CR Army - CR

Navy - EC
Air Force - 99
Agent:
DLA - CC
DLA - CC

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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.