

PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR127/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: 10 MHz to 61 MHz; third mechanical overtone; noncontrolled; series resonance.

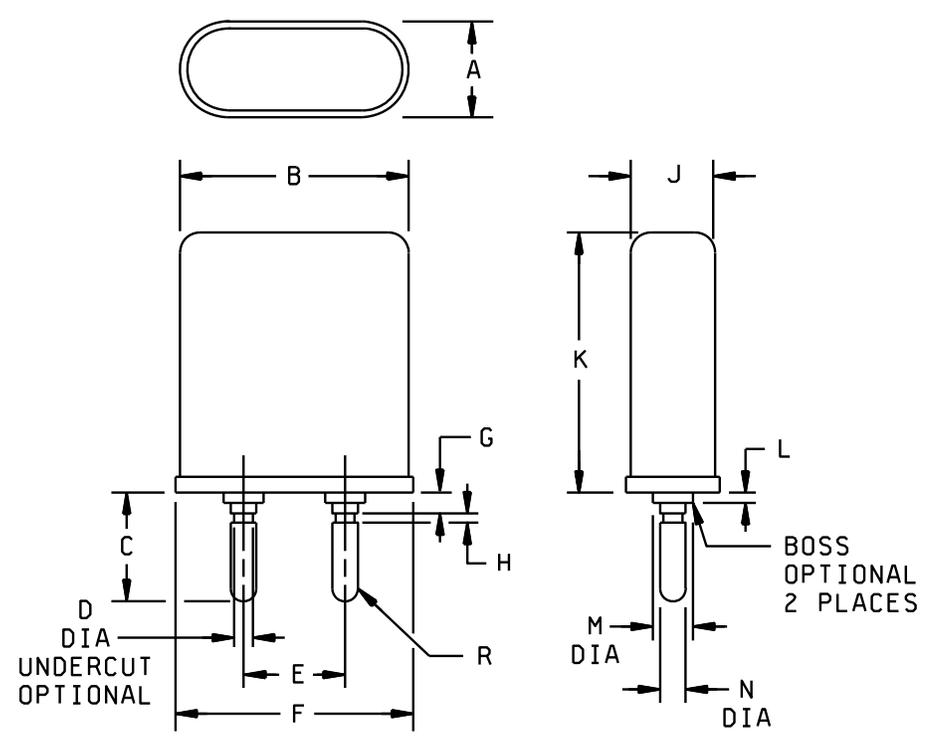


FIGURE 1. Crystal unit - CR127/U.

Ltr	Inches		mm	
	Min	Max	Min	Max
A	---	.352	---	8.94
B	---	.725	---	18.42
C	.223	.248	5.66	6.30
D	.030	.037	0.76	0.94
E	.460	.476	11.68	12.09
F	---	.757	---	19.23
G	.030	.040	0.76	1.02
H	.015	.025	0.38	0.64
J	---	.317	---	8.05
K	---	.775	---	19.68
L	.015	.025	0.38	0.64
M	.075	.141	1.90	3.58
N	.048	.052	1.22	1.32

## 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 - CR127/U - Continued.

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 10 MHz to 61 MHz, inclusive.

Capacitance, shunt: 7 pF, maximum.

Frequency tolerance:

Operating temperature range:  $\pm 0.0025$  percent.

Mode of oscillation: Third mechanical overtone.

Rated drive level: 1.0 mW, maximum.

Resonance: Series.

Operating temperature range (noncontrolled):  $+55^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$ , inclusive.

Equivalent resistance: 40 ohms, maximum.

Shock:

Frequency change permitted:  $\pm 0.0005$  percent.

Equivalent-resistance change permitted:  $\pm 10$  percent.

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

Frequency change permitted:  $\pm 0.0005$  percent.

Equivalent resistance change permitted:  $\pm 10$  percent.

Temperature cycling:  $\pm 0.0025$  percent.

Aging:

Frequency change permitted:  $\pm 0.0005$  percent.

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

Preparing activity:

DLA - CC

(Project 5955-2009-036)

Review activities:

Air Force - 19, 84

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 <http://assist.daps.dla.mil/>.