INCH-POUND
MIL-PRF-3098/82E
6 March 2013
SUPERSEDING
MIL-PRF-3098/82D
16 January 2006

PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR106/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 and MIL-PRF-3098.

Pertinent characteristics: 10.5 MHz to 11.5 MHz; fundamental; noncontrolled; antiresonance.

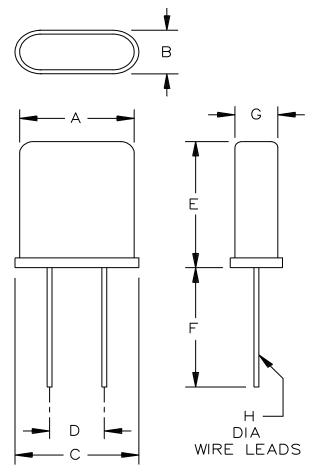


FIGURE 1. Crystal unit - CR106/U.

AMSC N/A FSC 5955

Ltr	Inches		mm	
	Min	Max	Min	Max
Α	-	.402	-	10.21
В	-	.183	-	4.65
C	-	.435	-	11.05
D	.184	.200	4.67	5.08
Ш	-	.530	-	13.46
F	.50	-	12.7	-
G	-	.150	-	3.81
Н	.015	.019	0.38	0.48

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. Type CR106/U, crystal unit - Continued.

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REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 10.5 MHz to 11.5 MHz, inclusive.

Antiresonance load capacitance: 32.0 pF ±0.5 pF, maximum.

Capacitance, shunt: 7.0 pF, maximum.

Mode of oscillation: Fundamental.

Rated drive level: 1.0 mW, maximum.

Equivalent resistance: 25 ohms, maximum.

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

Frequency tolerance: ±50 ppm.

Frequency and equivalent resistance: Method A, MIL-PRF-3098.

Shock (specified pulse):

Frequency change permitted: ±5 ppm.

Equivalent resistance change: ±10 percent.

Vibration: Method 201, MIL-STD-202.

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

Aging:

Frequency change permitted: ±5 ppm.

Reference documents. In addition to MIL-PRF-3098, this document references the following:

MIL-STD-202

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Custodians: Preparing activity: Army - CR Army - CR

Navy - EC
Air Force - 85
DLA - CC
Agent:
DLA - CC

Review activities: (Project 5955-2012-004)

Air Force - 19, 84, 99

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.