INCH-POUND MIL-PRF-3098/80G 6 March 2013 SUPERSEDING MIL-PRF-3098/80F 16 January 2006

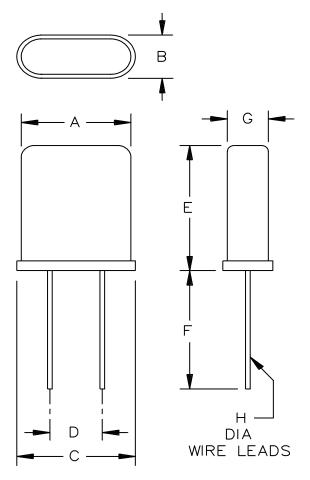
### PERFORMANCE SPECIFICATION SHEET

## CRYSTAL UNIT, QUARTZ, CR105/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: 48 MHz to 125 MHz; fifth mechanical overtone; noncontrolled; series resonance.





# MIL-PRF-3098/80G

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

NOTES:

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

FIGURE 1. Type CR105/U, crystal unit - Continued.

## MIL-PRF-3098/80G

#### **REQUIREMENTS:**

Dimensions, marking, and configuration: See figure 1.

Frequency range: 48.0 MHz to 125.0 MHz, inclusive.

Capacitance, shunt: 4.0 pF, maximum.

Mode of oscillation: Fifth mechanical overtone.

Rated drive level: 1.0 mW, maximum.

Equivalent resistance: 40 ohms.

Resonance: Series.

Reference temperature:  $+25^{\circ}C \pm 1^{\circ}C$ .

Frequency tolerance: ±10 ppm.

Operating temperature range (noncontrolled): -40°C to +95°C, inclusive.

Frequency tolerance: ±25 ppm.

Equivalent resistance: 60 ohms, maximum.

Shock (specified pulse):

Frequency change permitted: ±5 ppm.

Equivalent resistance change: ±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.

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-3098/80G

Custodians: Army - CR Navy - EC Air Force - 85 DLA - CC

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Preparing activity: Army - CR

Agent: DLA - CC

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Review activities: Air Force - 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.