MIL-C-3098/50C
7 November 1984
SUPERSEDING
MIL-C-3098/50B(USAF)
16 April 1969

MILITARY SPECIFICATION SHEET

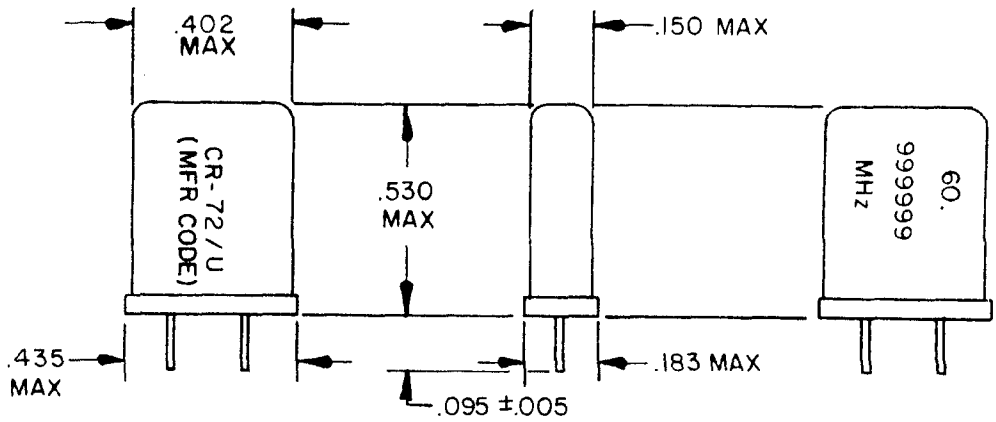
CRYSTAL UNIT, QUARTZ, CR-72/U

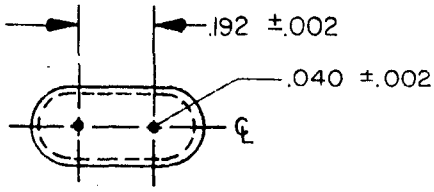
© INACTIVE FOR NEW DESIGN

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for acquiring the crystal unit described herein shall consist of this specification and the latest issue of MIL-C-3098.

Pertinent characteristics: 17 to 61 MHz; third overtone; noncontrolled; series.





INCHES	MM	INCHES	MM	INCHES	MM
.002	0.05	.095	2.41	.402	10.21
.005	0.13	.150	3.81	.435	11.05
.040	1.02	.183	4.65	.530	13.46
		.192	4.88		

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. The type-designation, frequency, and code-designating characters shall be not less than .038 (0.97 mm) in height and not less than .027 (0.69 mm) in width.

© denotes changes

FSC 5955

TABLE I. Requirements.

Requirement	Specified value or condition
(C) Holder	HC-25/U (MIL-H-10056/9) Modified as shown on figure 1.
Dimensions, marking, and configuration	See figure 1.
Frequency range	17 to 61 MHz, inclusive
Frequency tolerance (operating temperature range)	±0.005 percent
Capacitance, shunt	7 pF maximum
Equivalent resistance	40 ohms maximum
Mode of oscillation	Third mechanical overtone
Operating temperature range	-55°C to +105°C inclusive
Government reference standard test set	TS-683/TSM
Calibration values:	
Resistance	40 ohms
Resistor voltage drop	0.28 volt
Rated drive level	2.0 ±0.4 mW
Shock:	
Frequency change permitted	±0.0005 percent
Equivalent resistance change permitted	±10 percent
Vibration: 1/	
Frequency change permitted	±0.0005 percent
Equivalent resistance change permitted	±10 percent
Temperature cycling:	
Frequency change permitted	±0.0005 percent
Equivalent resistance change permitted	±10 percent
Aging:	
Frequency change permitted	0.0005 percent

1/ Method 204 of MIL-STD-202, test condition A.

Custodians:
Army - ER
Navy - EC
Air Force - 85

Review activities:
Army - AR, MI, SM
Navy - SH, TD
Air Force - 99
DLA - ES

User activities:
Navy - AS, CG, MC, OS
Air Force - 17, 19

Agent:
DLA - ES

Preparing activity:
Army - ER

(Project 5955-0623-13)