

INCH-POUND
MIL-PRF-3098H
AMENDMENT 1
13 January 1998

PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNITS, QUARTZ
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-PRF-3098H, dated 27 August 1997, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

1.2.2, delete the second sentence and substitute: "The number comprises one or more digits."

PAGE 2

2.1, third sentence, after specified requirements, add "in the".

PAGE 4

3.4.2, add two spaces between 3.4.2 and Pin alignment.

3.10.1, add a return after the paragraph.

PAGE 5

3.12, delete the second sentence and substitute: "Measurements of frequency and equivalent resistance shall be made immediately before the test, and a minimum of 30 minutes after the test to allow units to return to thermal equilibrium (see 4.7.1.2)."

PAGE 11

TABLE IV, after Bond strength (when specified), add "2".

PAGE 15

4.7.8.1, eighth sentence, delete "For example, if the specified frequency tolerance is ± 0.005 percent (overall 100 ppm) then the end point tolerance is 5 ppm." Also, ninth sentence, delete, "using T/C analyzer, Winslow Teletronics, Inc., Model TCA-1070, or equal."

4.7.10.1, add a return after the paragraph.

PAGE 16

4.7.14, third paragraph, first sentence, delete "(0.0005 percent)".

PAGE 20

6.8, delete last sentence.

PAGE 21

40.1, paragraph a, first sentence, add a space between the words to and other.

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PAGE 22

TABLE VII, delete and substitute:

"TABLE VII. Grouping for qualification. ^{1/}

| Group number ^{2/ 3/} | Crystal unit types ^{2/ 4/} |
|--|--|
| 2 | CR37/U† |
| 2A | CR42/U |
| 3 | CR45/U† |
| 5 | CR63/U†, CR46/U, CR25/U |
| 5A | CR104/U, CR47/U, CR26/U |
| 7 | CR69/U†, CR78/U, CR64/U, CR79/U, CR97/U |
| 7A | CR60/U, CR106/U, CR139/U |
| 8 | CR85/U†, CR130/U, CR125/U, CR119/U, CR18/U, CR58/U, CR19/U, CR157/U, CR89/U, CR6/U, CR5/U, CR8/U, |
| 8A | CR62/U, CR36/U, CR27/U, CR35/U, CR28/U, CR131/U |
| 9 | CR1/U†, CR91/U, CR96/U, CR95/U |
| 10 | CR114/U†, CR124/U |
| 11 | CR112/U†, CR134/U, CR136/U, CR129/U, CR137/U |
| 11A | CR135/U, CR109/U |
| 12 | CR148/U†, CR52/U |
| 12A | CR65/U |
| 13 | CR152/U†, CR76/U, CR77/U, CR67/U, CR117/U, CR55/U, CR72/U, CR81/U |
| 13A | CR84/U, CR61/U |
| 14 | CR111/U†, CR128/U |
| 14A | CR113/U |
| 15 | CR54/U† |
| 15A | CR75/U |
| 16 | CR80/U†, CR83/U, CR141/U, CR56/U, CR82/U |
| 16A | CR59/U |
| 17 | CR116/U†, CR105/U, CR110/U, CR149/U, CR98/U, CR151/U, CR107/U |
| 17A | CR123/U, CR122/U |
| 18A | CR74/U, CR108/U |
| 19 | CR159/U, CR165/U |
| These crystal units must be individually qualified (unless an alternative plan is approved by the qualifying activity) | CR33/U, CR71/U, CR73/U, CR101/U, CR102/U, CR103/U, CR127/U, CR142/U, CR150/U |

^{1/} See 40.1.^{2/} The pair of groups (e.g., 2 and 2A) may be qualified by a single set of samples for each pair, provided: (1) The samples are for the type indicated by the symbol "†", and (2) The samples are tested for and successfully pass the temperature-run test over the operating range for the controlled types. As an alternative procedure, when one group of noncontrolled crystal unit have been qualified, a separate set of samples may be submitted for the leading item of the bracketed controlled group in the event only the temperature-run test need be performed.^{3/} Some group numbers have been omitted due to the cancellation of some crystal unit types.^{4/} Qualification of one crystal unit type constitutes qualification of all others of the same group that follow it in the group listing."

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Custodians:

Army - CR
Navy - EC
Air force - 85

Review activities:

Army - AR, MI, SM
Navy - AS, CG, MC, OS, SH
Air Force - 17, 19, 99
DLA - CC

Preparing activity:

Army - CR

Agent:

DLA - CC

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