

MILITARY
SPECIFICATION

MIL-C-10405A(SigC)
Amendment No. 3
29 July 1959
Superseding
Amendment No. 2
4 March 1958

CRYSTAL UNITS, QUARTZ, PRESSURE
AND SPACER MOUNTED

1. Paragraph 2.1: Under SPECIFICATIONS, FEDERAL, delete all reference to QQ-M-151. Under STANDARDS, MILITARY, add: MIL-STD-202 Test Methods for Electronic and Electrical Component Parts.

2. Paragraph 3.2.5 Preproduction inspection.- Delete last sentence and substitute the following two sentences: "The following preproduction tests will normally be performed in this order: (1) vibration, (2) drop, and (3) immersion. Other preproduction inspection may precede, follow, or be interspersed with the foregoing."

3. Table I - Preproduction inspection and Table II.- Government group A inspection: In each table, transpose "Drop 3.9 4.2.4.1" so that it follows "Vibration 3.10 4.2.4.2" instead of preceding it.

4. Paragraph 3.10 Vibration.- Insert "no" between "be" and "resultant."

5. Paragraph 3.11 Seal.- Change "After" to "During."

6. Paragraph 4.1.1 Group A inspection.- Change "All tests with" to "All tests within."

7. Paragraph 4.1.3 Group C inspection.- Change "test 4.2.10" to "test. See 3.6 and 4.2.10."

8. Paragraph 4.1.3.1 Selection of samples.- Add the following new sentence after the present sentence: "If the sample fails, a second sample of two plates shall be selected at random and tested; no defectives will be allowed in the second sample."

9. Paragraph 4.1.3.2 Noncompliance.- Delete the paragraph in full and substitute the following two paragraphs:

4.1.3.2 Disposition of plates.- Plates that have passed the group C test may be delivered on the contract.

4.1.3.3 Noncompliance.- If the second sample fails the group C test, the manufacturer shall immediately take corrective action on the processes and on all units of product that were manufactured with the same conditions and processes and that are considered, in the judgment of the Government, to be subject to the same test failure. Government inspection may be discontinued, at the option of the contracting officer, until a sample consisting of three plates produced by the corrected process has been subjected to and has passed the group C test. Units of product subsequently submitted for Government acceptance shall incorporate the corrective action, unless this requirement is temporarily waived by the contracting officer."

Amendment 3, to Spec
MIL-C-10405A(SigC)

10. Paragraph 4.2.4 Drop and vibration.- Delete and substitute: "The frequency and resonance resistance of the unit shall be measured, using the methods specified in 4.2.2.1 and 4.2.3.1, before and after the vibration test and before and after the drop test. See 4.3."

11. Paragraph 4.2.4.2 Vibration.- Add the following after the present material:

"A simple harmonic motion having an amplitude of 0.015 inches (maximum total excursion of 0.030 inches) shall be applied continuously to the platform for 2 hours. The frequency of the applied vibration shall be varied uniformly between the limits of 10 and 55 cycles per second. The entire excursion from 10 to 55 cycles per second and back to 10 cycles shall be traversed in 1 to 2 minutes. See 3.10."

12. Paragraph 4.2.5.2 Test Equipment.- Change "KS - 10D6" to "KS - 10176". Change "14.2, equal" to "14, or equal."

13. Paragraph 4.2.9 Corrosion.- Delete and replace with:

"4.2.9 Corrosion test.- The crystal unit shall be tested in accordance with method 101, test condition B, of Standard MIL-STD-202. After this test the unit shall be examined for compliance with 3.14."

14. Individual Specification Sheets MIL-C-10405A/2(SigC) to MIL-C-10405A/9(SigC) inclusive: On each of the nine specification sheets, change "Drop and Vibration Test" to "Drop and Vibration Tests" and change "After the test" to "after each test."

15. Individual Specification Sheets MIL-C-10405A/8(SigC) and MIL-C-10405A/9(SigC): On each sheet, under "Special Requirements and Conditions," definition of C₁, change "is set at S" to "is set at A."

16. Figure 4: Replace present Figure 4 with revised Figure 4 as shown on page 3 of this Amendment.

Spec. No.
MIL-C-10405A (S1G)
Amendment 3

DRIVE ADJUSTMENT DATA FOR TS-330/TSM

(SET TO INDICATED VALUES WITH TEST SET IN "CALIBRATE" POSITION)

FREQUENCY RANGE (KC)	CALIBRATION FREQUENCY (KC)	CALIBRATION RESISTANCE (OHMS)	CALIBRATION CRYSTAL CURRENT (MA)
2 - 2.25	2000	90	20
2.25-3.4	3000	130	20
3.4 - 10	5000	100	30

RESISTANCE IN OHMS

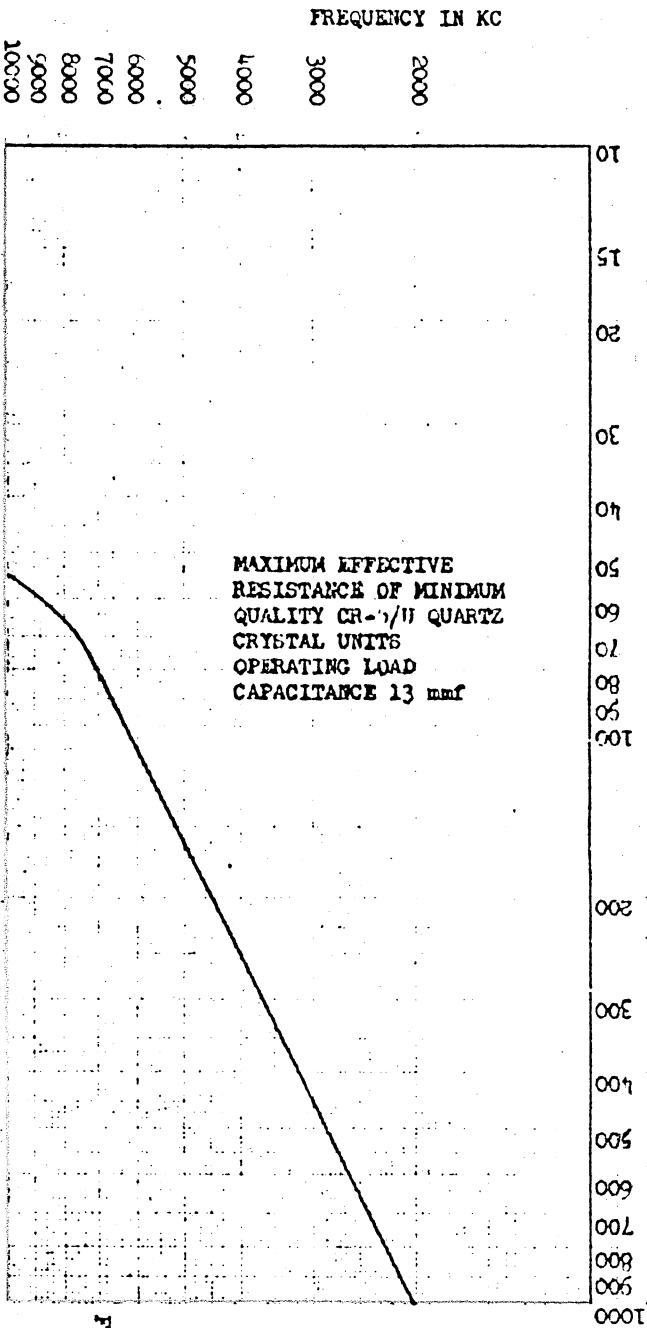


FIGURE 4.