

INCH-POUND

MIL-C-39014E
AMENDMENT 2
28 January 1993
SUPERSEDING
AMENDMENT 1
3 September 1992

MILITARY SPECIFICATION SHEET

CAPACITOR, FIXED, CERAMIC DIELECTRIC
(GENERAL PURPOSE)
ESTABLISHED RELIABILITY,
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-39014E, dated 4 December 1990, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 5

- * 3.6, Dielectric withstanding voltage (at 25°C test), add the following: "Not applicable if optional voltage conditioning was performed at or above 250 percent of rated voltage."

PAGE 14

- * 4.4.4.1c, add the following: "Styles in a group (see 4.6.1.1.1) may be combined for FR levels 'R' and 'S'; however, at least FR level 'P' must be maintained on each style with the exception of those styles listed in group 5. The styles in group 5 may be combined for the 'P' FR level and the 'R' FR level. Styles in groups 1 and 2 may be combined for levels 'R' and 'S'; however, at least failure rate level 'P' must be maintained on each style."

4.4.4.2, second sentence, delete in its entirety and substitute:

"The PPH defect level shall be maintained in accordance with the style groupings listed in 4.6.1.1.1."

4.5g, last sentence, delete in its entirety and substitute:

"This information shall be submitted in accordance with the style groupings listed in 4.6.1.1.1."

PAGE 15

- * 4.6.1.1.1, paragraph following style groupings: Delete in its entirety.

PAGE 23

- * 4.7.2.2.2, title, add the following: "(Capacitors with voltage ratings of 200 volts or less only.)"

PAGE 25

4.7.10.1, delete in its entirety and substitute:

"4.7.10.1 For qualification inspection. The temperature of each capacitor shall be varied as specified in table VI. Capacitance measurements shall be made at the frequency and voltage specified in 4.7.3a and 4.7.3b. The dc rated voltage need only be applied to the capacitor in each of steps E through G until voltage stability is reached and the capacitance measurement is made. Capacitance measurements shall be made at each step specified in table VI and at a sufficient number of intermediate points between steps B and G to establish a true characteristic curve. Capacitance measurements at each temperature shall be taken at 5-minute intervals and shall be stopped and recorded when two successive readings indicate a capacitance change of less than one percent."

MIL-C-39014E
AMENDMENT 2

PAGE 28

* 4.7.20.1b, delete in its entirety and substitute:

"b. Operating conditions - Capacitors shall be subjected to the applicable high-test temperature, +4, -0°C (see 3.1) at 200, ± 2 percent of the dc rated voltage."

* 4.7.20.1c, delete in its entirety and substitute:

"c. Operating conditions - Capacitors tested under rated conditions shall be subjected to the dc rated voltage, ± 2 percent."

PAGE 35

* 6.2, add the following subparagraph:

"h. Insulating coating limits of less than .018 inch (0.46 mm) for MIL-C-39014/1 and MIL-C-39014/2 capacitors are negotiable with the manufacture."

The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment 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.

CONCLUDING MATERIAL

Custodians:

Army - ER
Navy - EC
Air Force - 85

Review activities:

Army - AR, MI
Air Force - 99
DLA - ES

User activities:

Army - AT, AV, MI
Navy - MC
Air Force - 19

Preparing activity:

Army - ER

Agent:

DLA - ES

(Project 5910-1830)