

INCH-POUND  
MIL-PRF-39006E  
AMENDMENT 2  
10 February 2000  
SUPERSEDING  
AMENDMENT 1  
7 July 1998

PERFORMANCE SPECIFICATION

CAPACITORS, FIXED, ELECTROLYTIC (NONSOLID ELECTROLYTE),  
TANTALUM, ESTABLISHED RELIABILITY,  
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-PRF-39006E, dated 15 January 1998, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 6

Paragraph 3.17 Capacitance: delete and substitute: Shall change no more than  $\pm 5$  percent from the initial value obtained when measured as specified in 4.8.4

PAGE 16

Paragraph 4.6.1.1(d), add CLR82.

PAGE 18

Table IV change title from Sampling plan for ppm categories to Sampling Plan.

PAGE 20

Table V. Group B inspection: After Subgroup 1 add 4.

Table V. Group B inspection: After Subgroup 2 add 4.

Table V. Group B inspection: Add the following footnote, 4/ For Styles CLR10, CLR14 and CLR17 only. Conformance testing for subgroups 1 and 2 to be done monthly. The grouping of four consecutive date codes (one months production) is allowed.

PAGE 21

Table VI. Group C inspection: In Subgroup 1 following (2 months) add (CLR10, CLR14 and CLR17 every 6 months.).

TABLE VI Group C inspection, delete subgroup 8 and replace as follows:

Test	Requirement paragraph	Test paragraph	Number of sample units to be inspected	Number of failures allowed <u>1</u> /
<u>Subgroup 8 (every month) 7/</u>				
Thermal shock	3.13	4.8.9	10	0
Life (2,000-hour at 125°C)	3.27.1	4.8.23.1		1

Add the following footnote to TABLE VI, Group C inspection: 7/ Of the 10 sample units, no failures allowed for thermal shock, and only 1 allowed for life 2000-hour at 125 °C.

PAGE 31

Paragraph 4.8.20.2c, delete and substitute:

“c. Measurement after exposure: In addition to the measurements specified in 4.8.20.1g, the dielectric withstanding voltage and insulation resistance shall be measured on insulated capacitors as specified in 4.8.15 and 4.8.16, respectively. Failures in the Dielectric Withstanding Voltage test and the Insulation Resistance test and the Visual Examinations following the life test shall not be counted against the declared C=0 number as a failure for MIL-STD-690 Calculation of Failure Rate. Failures for Dielectric Withstanding Voltage and or Insulation Resistance shall be investigated, identified and satisfactory corrective actions offered to the qualifying activity for approval.

PAGE 32

Paragraph 4.8.22b; delete and substitute:

b. Test condition, styles CLR79, CLR81, CLR90, and CLR91 “H” designated units: II-K. The test shall be conducted for one and one-half hours in each of three mutually perpendicular directions.

PAGE 40

Paragraph 30.1.1, last line, add CLR82 between CLR81 and CLR90.

Custodians:

Army - CR  
Navy - EC  
Air Force - 11  
DLA - CC  
NASA - NA

Preparing activity:

DLA - CC

(Project 5910-2028)

Review activities:

Army - AR  
Navy - AS, MC, OS, SH  
Air Force - 19, 99