

INCH-POUND

MIL-C-11272C  
 AMENDMENT 11  
11 Dec 1991  
 SUPERSEDING  
 AMENDMENT 10  
 15 December 1989

MILITARY SPECIFICATION  
 CAPACITORS, FIXED, GLASS DIELECTRIC,  
 GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-11272C, dated 7 January 1970,  
 and is approved for use by all Departments and Agencies of the  
 Department of Defense.

PAGE 1

Below title, add:

" INACTIVE FOR DESIGN AFTER 24 AUG 79  
 USE MIL-C-23269 "

PAGE 2

\* Table II, delete and substitute:

\* TABLE II. Capacitance tolerance.

Symbol	Capacitance tolerance (±)
B	0.10 pF
C	0.25 pF
D	0.50 pF
F	1%
G	2%
J	5%
K	10%
M	20%

PAGE 3

3.1, delete and substitute the following:

"3.1 Detail specifications. The individual item requirements shall be as specified herein and in accordance with the applicable detail specifications. In the event of any conflict between requirements of this specification and the detail specification, the latter shall govern."

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3.13, title, delete and substitute: "Thermal shock and immersion."

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PAGE 6

Add new paragraphs 3.19.1 and 3.19.2 as follows:

"3.19.1 Alternate marking (all styles). Capacitor packaging containers shall be marked with the type designation, capacitance, capacitance tolerance, voltage, "JAN" brand, and the commercial and Government entity (CAGE) code. Other markings which in any way interfere with, obscure, or confuse those specified herein are prohibited.

When specified in the ordering data, see 6.1, capacitors shall be legibly marked in accordance with table II-1.

At the option of the manufacturer, capacitors may be laser marked with the manufacturer's trademark or symbol, the three-digit capacitor code and tolerance code as follows:

XXX  
OR1  
F

Where space does not permit, the manufacturer's trademark or symbol may be omitted.

"3.19.2 Alternate marking (CY80-series capacitors only). These capacitors shall be marked with a contrasting color dot placed on the side of the capacitor to indicate the vertical plate orientation to that side. When parts are laser marked, the marking shall be on the surface which is parallel to the plane of the embedded electrodes (this is the larger area which is normally the imprint area). If the capacitor is so marked, the vertical plate orientations are defined and therefore, the contrasting color dot on the capacitor to indicate the vertical plate orientation to that side is optional."

After 3.19.2, add the following new table:

"TABLE II-1. Alternate marking (all styles)."

Character	Significant units	Capacitance (pF) and multiplier					
		Orange (X 0.1)	Black (X 1.0)	Green (X 10)	Blue (X 100)	Violet (X 1000)	Red (X 10,000)
A	10	1.0	10	100	1000	10,000	100,000
B	11	1.1	11	110	1100	11,000	110,000
C	12	1.2	12	120	1200	12,000	120,000
D	13	1.3	13	130	1300	13,000	130,000
E	15	1.5	15	150	1500	15,000	150,000
H	16	1.6	16	160	1600	16,000	160,000
I	18	1.8	18	180	1800	18,000	180,000
J	20	2.0	20	200	2000	20,000	200,000
K	22	2.2	22	220	2200	22,000	220,000
L	24	2.4	24	240	2400	24,000	240,000
N	27	2.7	27	270	2700	27,000	270,000
O	30	3.0	30	300	3000	30,000	300,000
R	33	3.3	33	330	3300	33,000	330,000
S	36	3.6	36	360	3600	36,000	360,000
T	39	3.9	39	390	3900	39,000	390,000
V	43	4.3	43	430	4300	43,000	430,000
W	47	4.6	47	470	4700	47,000	470,000
X	51	5.1	51	510	5100	51,000	510,000
Y	56	5.6	56	560	5600	56,000	560,000
Z	62	6.2	62	620	6200	62,000	620,000
3	68	6.8	68	680	6800	68,000	680,000
4	75	7.5	75	750	7500	75,000	750,000
7	82	8.2	82	820	8200	82,000	820,000
9	91	9.1	91	910	9100	91,000	910,000

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4.6.10 and 4.6.10.1, delete and substitute:

"4.6.10 Thermal shock and immersion (see 3.13).

"4.6.10.1 Thermal shock. Capacitors shall be tested in accordance with method 107 of MIL-STD-202. The following details and exceptions shall apply:

- a. Test condition letter - B.
- b. Measurements before and after cycling - Not applicable."

PAGE 14

4.6.15.1, line 15: Delete " $\pm 10$  MHz" and substitute " $\pm 10$  kHz".

PAGE 15

6.2, lines 6 and 7: Delete "U.S. Army Electronics Command, Fort Monmouth, New Jersey 07703" and substitute "Air Force Logistics Command, 2750 LOG/ES, Gentile AF Station, Dayton, OH 45444-5400".

PAGE 16

Add the following new paragraph:

"6.3.1 For the purpose of retention of qualification and quality conformance inspection (see 4.4.4 and 4.5), test data on identical items covered by MIL-C-23269 may be used."

Concluding material, delete and substitute as printed below.

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 amendment.

CONCLUDING MATERIAL

Custodians:

Army - ER  
Navy - EC  
Air Force - BS

Review activities:

Army - MI  
Air Force - 17, 99  
DLA - ES

User activities:

Navy - CG, MC  
Air Force - 19

Preparing activity:

Air Force - BS

Agent:

DLA - ES

(Project 5910-1776)