

INCH-POUND

MIL-C-49464
AMENDMENT 2
18 April 1991
SUPERSEDING
AMENDMENT 1
22 March 1989

MILITARY SPECIFICATION

CAPACITORS, CHIP, SINGLE LAYER, FIXED, PARALLEL PLATE,
CERAMIC DIELECTRIC, ESTABLISHED RELIABILITY, GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-49464, dated 12 May 1988,
and is approved for use by all Departments and Agencies of the
Department of Defense.

PAGE 2

- * 1.2.1.5, delete and substitute:

"1.2.1.5 Termination finish. The termination finish shall be identified by either the letter 'N' or 'P'. The letter 'N' shall identify a termination suitable for solder attachment (see 3.5.2). The letter 'P' shall identify a termination suitable for attachment by conductive epoxy or eutectic methods (see 3.5.2)."

PAGE 3

- * 3.5.2, delete and substitute:

"3.5.2 Terminations. The terminations shall be a minimum of 50 microinches of gold over a suitable barrier base metal 'N' or a termination suitable for attachment by conductive epoxy or eutectic methods 'P'."

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- * TABLE IV, group II, following "Solderability", add: "3/".
- * TABLE IV, following footnote 2/, add:

"3/ Solderability test is only applicable to termination 'N' capacitors."

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- * TABLE VI, subgroup 1, following "Solderability", add: "1/". At end of table VI, add:

"1/ Solderability test is only applicable to termination 'N' capacitors."

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- * 4.7.1, item "b", delete and substitute:

"b. The capacitors to be tested shall be attached to one land area by the applicable methods (see 1.2.1.5)."

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4.7.3, delete and substitute:

"4.7.3 Capacitance (see 3.7). Unmounted capacitors shall be tested in accordance with method 305 of MIL-STD-202. The following detail and exception shall apply:

a. Test frequency:

Classes 1A, 1B, and 1C: 1 MHz \pm 50 kHz.

Classes 2 and 3 (\leq 100 pF): 1 MHz \pm 50 kHz.

Classes 2 and 3 ($>$ 100 pF): 1 kHz \pm 50 Hz.

b. Test voltage:

Classes 1A, 1B, 1C, and 2: 1.0 V rms \pm 0.2 V.

Class 3: 0.3 V rms \pm 0.1 V.

NOTE (for classes 2 and 3 characteristics only): Following a dielectric withstanding voltage or insulation resistance test, capacitance may be measured after holding the capacitor for a period of time not to exceed 24 hours."

PAGES 17 AND 18

TABLE IX, delete and substitute:

"TABLE IX. Combined submission.

Style	Part number M49464	Number of units <u>1/</u>	Rated voltage
CPCRO1	E01A007PN	42	50
"	F01A006PN	"	"
"	G01A009PN	"	"
"	H01A007PN	"	"
"	J01A008CN	"	"
"	K01A008CN	"	"
"	L01A009CN	"	"
"	M01A009CN	"	"
"	N01A012CN	"	"
"	P01A015CN	"	"
"	R01A021CN	"	"
"	T01A029CN	"	"
"	U01A037CN	"	"
"	V01A031CN	"	"
"	W01A039CN	"	"
"	X01A047JN	"	"
"	Y01A049JN	"	"
"	Z01A061MN	"	"

See footnote at end of table.

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"TABLE IX. Combined submission - Continued.

Style	Part number M49464	Number of units <u>1/</u>	Rated voltage
CPCR01	E01J039JN	43	50
"	F01J037JN	"	"
"	G01J051JN	"	"
"	H01J045JN	"	"
"	J01J047JN	"	"
"	K01J049JN	"	"
"	L01J051JN	"	"
"	M01J053JN	"	"
"	N01J057JN	"	"
"	P01J061JN	"	"
"	R01J064JN	"	"
"	T01J066JN	"	"
"	U01J070JN	"	"
"	V01J068JN	"	"
"	W01J072JN	"	"
"	X01J072JN	"	"
"	Y01J072JN	"	"
"	Z01J072MN	"	"
"	E01A079PN	42	100
"	F01A078PN	"	"
"	G01A081PN	"	"
"	H01A079PN	"	"
"	J01A080CN	"	"
"	K01A080CN	"	"
"	L01A081CN	"	"
"	M01A081CN	"	"
"	N01A084CN	"	"
"	P01A087CN	"	"
"	R01A093CN	"	"
"	T01A101CN	"	"
"	U01A108CN	"	"
"	V01A103CN	"	"
"	W01A111CN	"	"
"	X01A119JN	"	"
"	Y01A121JN	"	"
"	Z01A133MN	"	"
"	E01J111JN	"	"
"	F01J109JN	"	"
"	G01J123JN	"	"
"	H01J117JN	"	"
"	J01J119JN	"	"
"	K01J121JN	"	"
"	L01J123JN	"	"
"	M01J125JN	"	"
"	N01J128JN	"	"
"	P01J133JN	"	"

See footnote at end of table.

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"TABLE IX. Combined submission - Continued.

Style	Part number M49464	Number of units <u>1/</u>	Rated voltage
CPCRO1	R01J137JN	42	100
"	T01J141JN	"	"
"	U01J148JN	"	"
"	V01J145JN	"	"
"	W01J152JN	"	"
"	X01J155JN	"	"
"	Y01J156JN	"	"
"	Z01A158MN	"	"

1/ Thirty-nine units of the smallest case and 40 units of the largest case shall be submitted if certification is given for fungus (see 3.19)."

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 - 85
NASA - NA

Review activities:
Navy - AS
Air Force - 17, 99
DLA - ES

User activities:
Navy - MC, SH
Air Force - 11, 19

Preparing activity:
Army - ER

Agent:
DLA - ES

(Project 5910-1735)