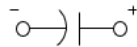
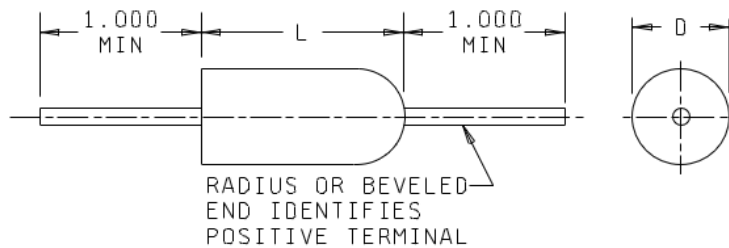


PERFORMANCE SPECIFICATION SHEET

CAPACITOR, FIXED, ELECTROLYTIC (SOLID ELECTROLYTE),
TANTALUM, POLAR, MOLDED, NONHERMETICALLY SEALED,
STYLE CX01

This specification sheet is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of
this specification sheet and [MIL-PRF-49137](#).



CIRCUIT DIAGRAM

Case size	Dimensions		Lead size	
	Diameter D ± .020 (0.51)	Length L ± .020 (0.51)	Dia.	AWG
A	.120 (3.05)	.310 (7.87)	.020 ± .0015 (0.51 ± 0.040)	24
B	.200 (5.08)	.400 (10.16)	.025 ± .002 (0.64 ± 0.05)	22, 24
C	.220 (5.59)	.560 (14.22)	.025 ± .002 (0.64 ± 0.05)	22, 24

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in millimeters and are given for general information only.
3. Metric equivalents are in parentheses.

FIGURE 1. Dimensions and configuration.



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TABLE I. Style CX01 characteristics.

Part or identifying number (PIN) 1/	DC rated voltage (+85°C) (Volts)	Capacitance (nominal) (μF)	DC leakage (max) +25°C (μA)	Dissipation Factor (DF) (%)	Case size
CX01D395 -	6	3.9	1.0	6	A
CX01D475 -	6	4.7	1.0	6	A
CX01D565 -	6	5.6	1.0	6	A
CX01D685 -	6	6.8	1.0	6	A
CX01D825 -	6	8.2	1.0	8	A
CX01D106 -	6	10.0	1.0	8	A
CX01D126 -	6	12.0	1.0	8	A
CX01D186 -	6	18.0	1.0	8	B
CX01D686 -	6	68.0	5.0	10	C
CX01F275 -	10	2.7	1.0	6	A
CX01F335 -	10	3.3	1.0	6	A
CX01F226 -	10	22	2.0	8	B
CX01F276 -	10	27	2.0	8	B
CX01F336 -	10	33	2.0	8	B
CX01F396 -	10	39	5.0	8	B
CX01F476 -	10	47	5.0	8	C
CX01F566 -	10	56.0	5.0	8	C
CX01H156 -	15	15	2.0	8	B
CX01H226 -	15	22	3.0	8	C
CX01H276 -	15	27	5.0	8	C
CX01H336 -	15	33	5.0	8	C
CX01J106 -	20	10	1.0	8	B
CX01J126 -	20	12	1.0	8	B
CX01J156 -	20	15	2.0	8	C
CX01J186 -	20	18	5.0	8	C
CX01K155 -	25	1.5	1.0	6	A
CX01K185 -	25	1.8	1.0	6	A
CX01K225 -	25	2.2	1.0	6	A
CX01K565 -	25	5.6	1.5	6	B
CX01K685 -	25	6.8	1.5	6	B
CX01K825 -	25	8.2	2.0	8	B
CX01K126 -	25	12	3.5	8	C
CX01M474 -	35	0.47	1.0	4	A
CX01M564 -	35	0.56	1.0	4	A
CX01M684 -	35	0.68	1.0	4	A
CX01M824 -	35	0.82	1.0	4	A
CX01M105 -	35	1.0	1.0	6	A
CX01M125 -	35	1.2	1.0	6	A
CX01M275 -	35	2.7	1.0	6	B
CX01M335 -	35	3.3	1.0	6	B
CX01M395 -	35	3.9	1.0	6	B
CX01M475 -	35	4.7	1.0	6	B
CX01M685 -	35	6.8	2.0	8	C
CX01M825 -	35	8.2	5.0	8	C
CX01M106 -	35	10.0	5.0	4	C

See footnote at end of table.

TABLE I. Style CX01 characteristics. Continued.

PIN <u>1/</u>	DC rated voltage (+85°C) (Volts)	Capacitance (nominal) (μF)	DC leakage (max) +25°C (μA)	Dissipation Factor (DF) (%)	Case size
CX01N104 -	50	0.10	1.0	4	A
CX01N124 -	50	0.12	1.0	4	A
CX01N154 -	50	0.15	1.0	4	A
CX01N184 -	50	0.18	1.0	4	A
CX01N224 -	50	0.22	1.0	4	A
CX01N274 -	50	0.27	1.0	4	A
CX01N334 -	50	0.33	1.0	4	A
CX01N394 -	50	0.39	1.0	4	A
CX01N474 -	50	0.47	1.0	4	B
CX01N564 -	50	0.56	1.0	4	B
CX01N684 -	50	0.68	1.0	4	B
CX01N824 -	50	0.82	1.0	4	B
CX01N105 -	50	1.0	1.0	4	B
CX01N125 -	50	1.2	1.0	6	B
CX01N155 -	50	1.5	1.0	6	B
CX01N185 -	50	1.8	1.0	6	B
CX01N225 -	50	2.2	1.0	6	B
CX01N275 -	50	2.7	1.0	6	C
CX01N335 -	50	3.3	2.0	6	C
CX01N395 -	50	3.9	5.0	6	C
CX01N475 -	50	4.7	5.0	6	C
CX01N565 -	50	5.6	5.0	6	C

1/ Complete PIN will include an additional symbol indicating capacitance tolerance.

REQUIREMENTS:

Dimensions and configuration: See [figure 1](#).

Case material: Molded, epoxy or plastic.

Leads: Solder - coated metal.

DC rated voltage: See [table I](#).

Operating temperature: -55°C to +85°C.

DC leakage (DCL): See [table I](#).

Capacitance (cap.): See [table I](#).

Cap. tolerance: $\pm 10\%$ (K) or $\pm 20\%$ (M).

Dissipation factor (DF): See [table I](#).

MIL-PRF-49137/1F

Stability at low and high temperature: In accordance with [MIL-PRF-49137](#).

Step 1 (+25°C):

DCL: See [table I](#).

Δ Cap.: Within tolerance specified in [table I](#).

DF: See [table I](#).

Step 2 (-55°C):

Δ Cap.: Within ± 15 percent of step 1 measured value.

DF: 200 percent of [table I](#).

Step 3 (+25°C):

DCL: See [table I](#).

Δ Cap.: Within ± 10 percent of step 1 measured value.

DF: See [table I](#).

Step 4 (+85°C):

DCL: 10 times +25°C limit (see [table I](#)).

Δ Cap.: Within ± 15 percent of step 1 measured value.

DF: 150 percent of [table I](#).

Step 5 (+25°C):

DCL: See [table I](#).

Δ Cap.: Within ± 10 percent of step 1 measured value.

DF: See [table I](#).

Surge voltage: In accordance with [MIL-PRF-49137](#).

DCL: See [table I](#).

Δ Cap.: Within ± 10 percent of initial value.

DF: See [table I](#).

Life (1,000 hours at +25°C): In accordance with [MIL-STD-202-108](#).

DCL: 200 percent of [table I](#).

Δ Cap.: Within ± 5 percent of initial measured value.

DF: See [table I](#).

NOTE: These capacitors are intended to be used only where supplemental moisture protection is provided or for noncritical applications where hermetic moisture protection is not required.

Reference documents. In addition to [MIL-PRF-49137](#), this specification sheet references the following:

[MIL-STD-202-108](#)

Changes from previous issue: The margins of this specification are marked with vertical lines to indicate where changes from the previous issue 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 previous issue.

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5910-2026-045)

Review activities:

Navy - AS, MC
Air Force - 19

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using ASSIST at <https://assist.dla.mil>.