

PERFORMANCE SPECIFICATION SHEET

CAPACITOR, FIXED, ELECTROLYTIC (DC, ALUMINUM, DRY ELECTROLYTE, POLARIZED), STYLES CE63 AND CE64

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-62](#).

Inactive for new design
 (For replacement purposes only)

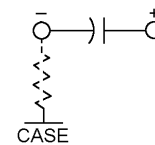
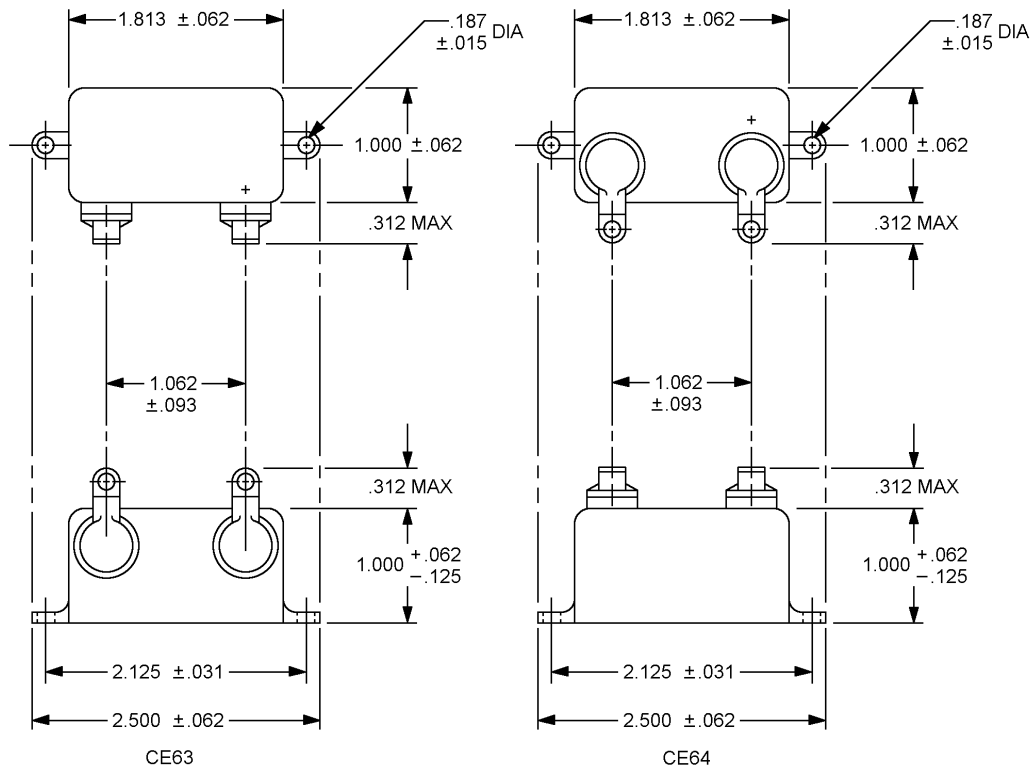


FIGURE 1. Dimensions and configuration.



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Inches	mm	Inches	mm
.015	0.38	.312	7.92
.031	0.79	1.000	25.40
.062	1.57	1.062	26.97
.093	2.36	1.813	46.05
.125	3.18	2.125	53.98
.187	4.75	2.500	63.50

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Capacitors are mounted by lugs (Family 5 (see [MIL-PRF-62](#))).
4. There is an indeterminate resistance between the metal case and the negative terminal.

FIGURE 1. Dimensions and configuration - Continued.

TABLE I. Styles CE63 and CE64 capacitors.

Part or identifying number (PIN)	Capacitance	DC rated voltage	DC leakage	Maximum impedance at 120 +10, -5 Hz, -40°C +0°C, -3°C	Dissipation factor
	μf	Volts	μa	Ohms	Percent
CE63C101E	100	15	58	750	20
CE63C250F	25	25	38	1,200	20
CE63C750F	75	25	66	400	20
CE63C250G	25	50	53	1,000	15
CE63C500G	50	50	75	500	15
CE63C250H	25	100	75	720	15
CE63C200J	20	150	83	800	12
CE63C150K	15	200	83	940	12
CE63C120M	12	250	83	1,000	12
CE63C100N	10	300	83	1,000	12
CE63C8R0P	8	350	80	3,200	12
CE63C6R0Q	6	400	74	3,400	12
CE63C4R0R	4	450	64	5,000	12
CE64C101E	100	15	58	750	20
CE64C250F	25	25	38	1,200	20
CE64C750F	75	25	66	400	20
CE64C100J	10	150	58	1,600	12
CE64C200J	20	150	83	800	12
CE64C100K	10	200	67	1,400	12
CE64C100N	10	300	83	1,000	12
CE64C8R0P	8	350	80	3,200	12
CE64C4R0R	4	450	64	5,000	12

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REQUIREMENTS:

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

Case type: Bathtub, side mounting lugs (CE63) and bottom mounting lugs (CE64).

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

Capacitance tolerance:

At 200 volts, dc rated, and above: -10, +50 percent (A).

At 150 volts, dc rated, and less: -10, +75 percent (B).

Operating temperature range:

For 4.0 μ F at 450 V dc: -40°C to +65°C.

For all others: -40° C to +85°C.

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

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

Terminal strength: Test conditions A, B, and E of [MIL-STD-202-211](#) as specified in [MIL-PRF-62](#).

Thermal shock and immersion:

Thermal shock: In accordance with [MIL-PRF-62](#).

Immersion: In accordance with [MIL-PRF-62](#).

Dielectric withstanding voltage (DWV) (insulating sleeves): In accordance with [MIL-PRF-62](#).

DCL: Not more than 150 percent of initial measurement.

Capacitance change: 5 percent.

DF: See [table I](#).

Corrosion: Not more than 10 percent.

Moisture resistance: In accordance with [MIL-PRF-62](#).

Insulation resistance (insulating sleeve): Not less than 100 megohms.

DWV (insulating sleeves): In accordance with [MIL-PRF-62](#).

DCL: Not more than 150 percent of initial requirement.

Capacitance change: 5 percent.

DF: See [table I](#).

Corrosion - Not more than 10 percent.

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Stability at low and high temperature: In accordance with [MIL-PRF-62](#).

Step 1 (at +25°C):

DCL: See [table I](#).

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

DF: See [table I](#).

Step 2 (at -40°C):

Impedance: See [table I](#).

Step 3 (at +25°C):

DCL: See [table I](#).

Capacitance change: ± 5 percent of Initial value.

DF: See [table I](#).

Step 4 (at +85°C):

Capacitance change: 20 percent of initial value.

DF: See [table I](#).

Step 5 (at +25°C):

DCL: See [table I](#).

Capacitance change: ± 5 percent of initial value.

DF: See [table I](#).

Surge voltage: In accordance with [MIL-PRF-62](#).

DCL: See [table I](#).

Capacitance change: 6 percent.

DF: See [table I](#).

Vent: Not applicable.

Life: In accordance with [MIL-PRF-62](#).

DCL: See [table I](#).

Capacitance change: 100 volts dc rated and less: -20, +15 percent.

DC rated voltage above 100 volts: ± 15 percent.

DF: Meet the initial requirement or not exceed 150 percent of the initial measurement, whichever is greater.

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Shelf life: In accordance with [MIL-PRF-62](#).

Build factor: Not more than 4.0.

Shelf factor: Not more than 3. 0.

DCL: Not more than 150 percent of initial requirement.

Capacitance change: 6 percent.

DF: Not more than 175 percent of initial requirement.

Application data:

Styles CE63 and CE64 are intended for use in replacement and maintenance only.

For new design, use style CE11 or CE13.

Supersession data: See [table II](#):

Recommended replacement items for deleted units CE63F040R and CE64F040R are CE63C4R0R and CE64C4R0C respectively.

TABLE II. Supersession data.

Superseded dash number: M62/11-	Recommended replacement PIN	Superseded dash number: M62/11-	Recommended replacement PIN
001	CE63C101E	012	CE63C6R0Q
002	CE63C250F	013	CE63C4R0R
003	CE63C750F	019	CE64C101E
004	CE63C250G	020	CE64C250F
005	CE63C500G	021	CE64C750F
006	CE63C250H	022	CE64C100J
007	CE63C200J	023	CE64C200J
008	CE63C150K	024	CE64C100K
009	CE63C120M	025	CE64C100N
010	CE63C100N	026	CE64C8R0P
011	CE63C8R0P	027	CE64C4R0R

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Referenced documents. In addition to [MIL-PRF-62](#), this document references the following:

[MIL-STD-202-211](#)

Changes from previous issue: Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

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

Preparing activity:

DLA - CC

(Project 5910-2020-026)

Review activities:

Army - AT, AV, CR4, MI
Navy - AS, MC, OS
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 Online database at <https://assist.dla.mil/>.