



DEFENSE LOGISTICS AGENCY
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October 14, 2026

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft of **MIL-PRF-55365/12H** (Capacitor, Chip, Fixed, Tantalum, Polarized, Established Reliability, Nonestablished Reliability, and High Reliability, Styles CWR15 and CWR25).

Project number: 5910-2027-001.

The subject document is now available for viewing and downloading from the DLA Weapons Support (Columbus) - VA website:

<https://landandmaritimeapps.dla.mil/Programs/MilSpec/initialdrafts.aspx>

This document is being revised to add a new style (CWR25). CWR25 capacitors are low equivalent series resistance (ESR) versions of CWR15s. An effort has been made to highlight changes from prior revisions; however, reviewers are cautioned to review the entire document.

Concurrence or comments are required at this Center no later than **18 November 2026**. If comments are not received during the allotted coordination period, concurrence may be assumed. Late comments may be held for the next specification action. Comments from military departments must be identified as either "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians of this office, as applicable, in sufficient time to allow for consolidating the department reply. Since Navy – EC is a custodian for this document; all Navy review activities should forward their comments directly to this Center.

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//Signature of file//

Mark Rush
Chief (Acting)
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NOTE: This draft, dated 14 October 2026, prepared by DLA-CC, has not been approved and is subject to modification.

DO NOT USE PRIOR TO APPROVAL. (Project 5910-2027-001)

INCH-POUND

MIL-PRF-55365/12HG

~~5 July 2024~~ DRAFT

SUPERSEDING

MIL-PRF-55365/12GF

~~w/AMENDMENT 4~~

~~15 March 2019~~ 5 July 2024

PERFORMANCE SPECIFICATION SHEET

CAPACITOR, CHIP, FIXED, TANTALUM, POLARIZED,
ESTABLISHED RELIABILITY, ~~AND~~ NONESTABLISHED RELIABILITY,
AND HIGH RELIABILITY, STYLES CWR15 AND CWR25

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-55365](#).

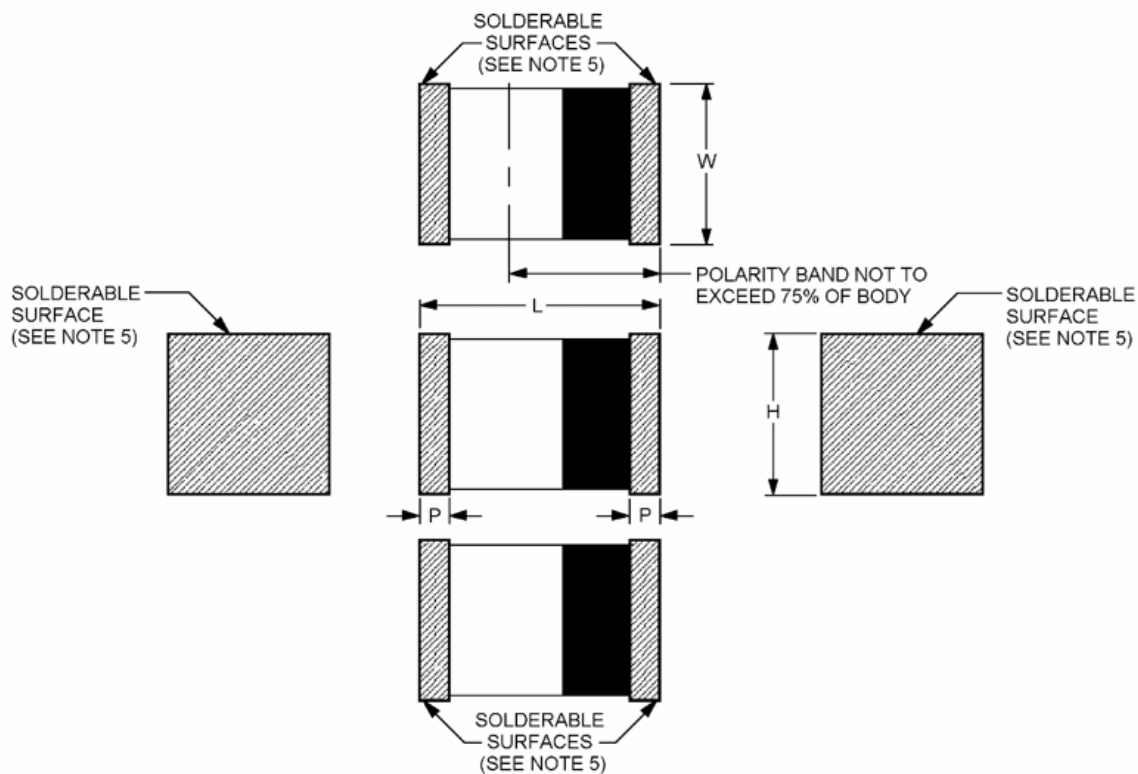


FIGURE 1. Dimensions and configuration.

AMSC N/A

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FSC 5910



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Case size	L + .010 (0.25) - .006 (0.15)	W + .008 (0.20) - .004 (0.10)	H + .008 (0.20) - .004 (0.10)	P + .014 (0.36) - .000 (0.0)
L	.063 (1.60)	.033 (0.84)	.033 (0.84)	.006 (0.15)
R	.079 (2.01)	.053 (1.35)	.053 (1.35)	.006 (0.15)
Case size	L ± .008 (0.20)	W ± .008 (0.20)	H ± .008 (0.20)	P + .014 (0.36) - .000 (0.0)
A	.126 (3.20)	.063 (1.60)	.063 (1.60)	.006 (0.15)
F	~~.158(4.01)~~	~~.116(2.95)~~	~~.050(1.27)~~	~~.010(0.25)~~

NOTES:

1. Dimensions are in inches.
2. Metric equivalents (in millimeters) are in parentheses and given for general information only.
3. These capacitors are designed for mounting by dip soldering, reflow soldering, or other conventional means.
4. The anode (+) terminal shall be identified by a marking on all four sides or laser marking on one side of the case.
5. Solderable surfaces are only those surfaces designated as such.
6. CWR25 capacitors are low ESR versions of CWR15s.

FIGURE 1. Dimensions and configuration - Continued.

REQUIREMENTS:

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

Termination finish: Termination finishes B, H, or K in accordance with [MIL-PRF-55365](#).

DC rated voltage: See [table I](#) or [table II](#). Above +85°C, voltage derating is required (see [MIL-PRF-55365](#)).

Operating temperature range: -55°C to +125°C.

Product level designator: In accordance with [MIL-PRF-55365](#), except the Weibull Failure Rate Level grading failure count during and after test shall be determined by dc leakage measurements of 0.045 X CV or 0.5µA whichever is greater.

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

Capacitance: See [table I](#) or [table II](#).

Capacitance tolerance: ± 5 percent (J), ± 10 percent (K), or ± 20 percent (M).

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

Equivalent series resistance (ESR) at 100 kHz: In accordance with [MIL-PRF-55365](#) (see [table I](#) or [table II](#)).

Resistance to soldering heat: In accordance with [MIL-PRF-55365](#).

Stability at low and high temperatures: In accordance with [MIL-PRF-55365](#).

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Moisture resistance:

CWR15: In accordance with MIL-PRF-55365.

CWR25: In accordance with MIL-PRF-55365, except:

Initial measurements: Capacitance and ESR.

Final measurements:

DCL, capacitance, and DF: In accordance with MIL-PRF-55365.

ESR: Shall not exceed 200 percent of the specified value (see table I or table II) and shall not change more than 100 percent from the initial measured value.

Surge voltage: In accordance with MIL-PRF-55365.

Life:

2,000 hours: In accordance with MIL-PRF-55365.

10,000 hours: In accordance with MIL-PRF-55365.

Solderability: In accordance with MIL-PRF-55365, except that following steam aging, test samples may have a 30 minute bake out at +150°C prior to solder dipping and all terminations shall exhibit a continuous solder coating free from defects for a minimum of 75 percent of the critical area of any individual termination.

TABLE I. Style CWR15 characteristics.

Part or identifying number (PIN) 1/	DC rated voltage (+85°C) (Volts)	Cap. (nom) (μF)	DC Leakage (max) (μA)			Dissipation factor (max) (percent)			Max ESR 100 kHz +25°C (Ohms)	Case size
			+25°C	+85°C	+125°C	+25°C	+85°C +125°C	-55°C		
CWR15CK685 -- L -	4	6.8	.5	5	6	8	16	12	10	L
CWR15CK106 -- R -	4	10	.5	5	6	8	16	12	6	R
CWR15CK156 -- R -	4	15	.6	6	7	8	16	12	6	R
CWR15CK226 -- R -	4	22	.9	9	11	8	16	12	6	R
CWR15CK336 -- R -	4	33	1.3	13	16	10	20	15	6	R
CWR15CK686 -- A -	4	68	2.7	27	33	15	30	23	1	A
CWR15DK335 -- L -	6	3.3	.5	5	6	6	12	9	10	L
CWR15DK475 -- L -	6	4.7	.5	5	6	8	16	12	10	L
CWR15DK685 -- R -	6	6.8	.5	5	6	8	16	12	6	R
CWR15DK106 -- R -	6	10	.6	6	7	8	16	12	6	R
CWR15DK156 -- R -	6	15	.9	9	11	8	16	12	6	R
CWR15DK226 -- A -	6	22	1.4	14	17	10	20	15	6	A
CWR15DK336 -- A -	6	33	2.0	20	24	10	20	15	6	A
CWR15DK476 -- A -	6	47	2.8	28	34	15	30	23	4	A
CWR15FK474 -- L -	10	0.47	.5	5	6	6	12	9	12	L
CWR15FK684 -- L -	10	0.68	.5	5	6	6	12	9	10	L
CWR15FK105 -- L -	10	1.0	.5	5	6	6	12	9	10	L
CWR15FK155 -- L -	10	1.5	.5	5	6	6	12	9	10	L
CWR15FK225 -- L -	10	2.2	.5	5	6	6	12	9	10	L
CWR15FK335 -- R -	10	3.3	.5	5	6	8	16	12	6	R
CWR15FK475 -- R -	10	4.7	.5	5	6	8	16	12	6	R
CWR15FK685 -- R -	10	6.8	.7	7	8.5	8	16	12	6	R
CWR15FK106 -- R -	10	10	1.0	10	12	8	16	12	6	R
CWR15FK156 -- A -	10	15	1.5	15	18	10	20	15	6	A

See footnotes at end of table.

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TABLE I. Style CWR15 characteristics - Continued.

Part or identifying number (PIN) ^{1/}	DC rated voltage (+85°C) (Volts)	Cap. (nom) (μF)	DC Leakage (max) (μA)			Dissipation factor (max) (percent)			Max ESR 100 kHz +25°C (Ohms)	Case size
			+25°C	+85°C	+125°C	+25°C	+85°C +125°C	-55°C		
CWR15HK475 -- R -	15	4.7	1.0	10	12	8	16	12	12	R
CWR15HK106 -- A -	15	10	1.5	15	18	10	20	15	12	A
CWR15JK474 -- L -	20	0.47	.5	5	6	6	12	9	24	L
CWR15JK335 -- R -	20	3.3	.5	5	6	8	16	12	18	R
CWR15KK334 -- L -	25	0.33	.5	5	6	6	12	9	30	L

- ^{1/} Complete PIN shall include additional symbols to indicate capacitance tolerance, product level designator, and surge current option letter. If surge current is not required, the last "-" shall be replaced with the letter Z.
- ^{2/} The following PINs are no longer available: CWR15CK107 -- F, CWR15DK686 -- F, CWR15FK336 -- F, CWR15HK105 -- L, CWR15HK156 -- F, CWR15JK685 -- A, CWR15JK106 -- F, CWR15KK155 -- R, CWR15KK335 -- A, CWR15KK475 -- F, CWR15MK224 -- L, CWR15MK474 -- R, CWR15MK105 -- A, CWR15MK225 -- F, CWR15NK104 -- L, CWR15NK334 -- R, CWR15NK155 -- F, CWR15NK684 -- A. For historical information, use the ASSIST Online database at <https://assist.dla.mil>.

TABLE II. Style CWR25 characteristics.

PIN ^{1/}	DC rated voltage (+85°C) (Volts)	Cap. (nom) (μF)	DC Leakage (max) (μA)			Dissipation factor (max) (percent)			Max ESR 100 kHz +25°C (Ohms)	Case size
			+25°C	+85°C	+125°C	+25°C	+85°C +125°C	-55°C		
CWR15CK106 -- R -	4	10	.5	5	6	8	16	12	1	R
CWR25DK475 -- L -	6	4.7	.5	5	6	8	16	12	3	L
CWR25DK685 -- R -	6	6.8	.5	5	6	8	16	12	2	R
CWR25DK106 -- R -	6	10	.6	6	7	8	16	12	1	R
CWR25DK476 -- A -	6	47	2.8	28	34	15	30	23	0.5	A
CWR25FK474 -- L -	10	0.47	.5	5	6	6	12	9	6	L
CWR25FK105 -- L -	10	1.0	.5	5	6	6	12	9	4	L
CWR25FK225 -- L -	10	2.2	.5	5	6	6	12	9	2.5	L
CWR25FK335 -- R -	10	3.3	.5	5	6	8	16	12	2	R
CWR25FK475 -- R -	10	4.7	.5	5	6	8	16	12	1	R
CWR25FK685 -- R -	10	6.8	.7	7	8.5	8	16	12	2	R
CWR25FK106 -- R -	10	10	1.0	10	12	8	16	12	1	R
CWR25FK156 -- A -	10	15	1.5	15	18	10	20	15	1	A

- ^{1/} Complete PIN shall include additional symbols to indicate capacitance tolerance, product level designator, and surge current option letter. If surge current is not required, the last "-" shall be replaced with the letter Z.

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
Other - NA

Preparing activity:
DLA - CC

(Project 5910-2027-00124-025)

Review activities:
Army - AR, MI
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 change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.