

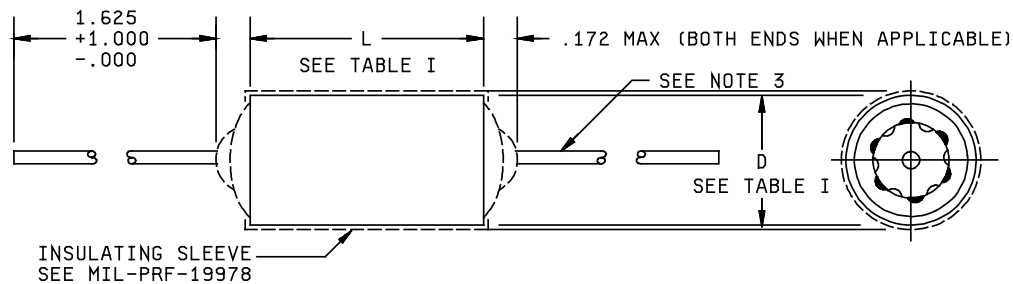
PERFORMANCE SPECIFICATION SHEET

CAPACITOR, FIXED, PLASTIC (OR PAPER-PLASTIC) DIELECTRIC,
AXIAL-WIRE TERMINAL, TUBULAR (INSULATED),
(HERMETICALLY SEALED IN METAL CASES),
ESTABLISHED RELIABILITY, STYLE CQR39

INACTIVE FOR NEW DESIGN
AFTER 20 OCTOBER 1972

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-19978](#).



NOTES:

- Dimensions are in inches.
- Metric equivalents are in millimeters and are given for general information only.
- Leads shall be of tinned solid wire, .025 inch (No. 22 AWG) for cases .235 inch and .312 inch in diameter; and .032 inch (No. 20 AWG) for cases .400 inch diameter and above. Tolerance on all lead wire diameters shall be + .004 inch, -.001 inch.
- Capacitors with dimension L of 1.562 inches or D of .562 inch and larger, are not intended to be supported by their leads. These capacitors shall be supported with a supplementary means of mounting, such as a wrap-around band. The supporting device will not be supplied with the capacitor.
- Lead length may be a minimum of 1.00 inch long for use in tape and reel packaging when specified in the ordering data.

Inches	mm	Inches	mm
.001	0.03	.312	7.92
.004	0.10	.400	10.16
.025	0.64	.562	14.27
.032	0.81	1.000	25.40
.172	4.37	1.562	39.67
.235	5.97	1.625	41.38

FIGURE 1. Style CQR39 capacitors.



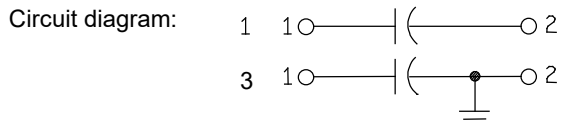
REQUIREMENTS:

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

Case material: Nonmagnetic (end seal may be of magnetic material).

Dielectric material: Paper and polyethelene terephthalate (K).

Terminals: Axial-wire lead (see [figure 1](#)).



Rated voltage: See [table I](#).

Rated temperature: -65° to +125°C.

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

Capacitance tolerance: ± 10 percent (symbol K).

Dissipation factor (DF) (max): 1.0 percent.

Failure rate level: M, P, R or S in accordance with [MIL-PRF-19978](#).

Burn-in: In accordance with [MIL-PRF-19978](#).

Radiographic inspection: In accordance with [MIL-PRF-19978](#).

Seal: [MIL-STD-202-112](#), test condition letter A.

Dielectric withstanding voltage (DWV):

Sleeving: In accordance with [MIL-PRF-19978](#).

Barometric pressure, qualification only: In accordance with [MIL-PRF-19978](#).

Test points:

Circuit diagram 1: Between terminals and case.

Circuit diagram 3: Between ungrounded terminal and case.

TABLE I. Styles CQR39 capacitors.

Part or identifying number (PIN) <u>1/</u>	DC voltage rating (volts)	Capacitance rating (μ F)	Failure rate level	Case dimensions <u>2/ 3/</u>			
				Circuit 1		Circuit 3	
				L $\pm$.031	D+.015 -.005	L $\pm$.031	D+.015 -.005
CQR39A-KB822K3-	100	.0082	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KB103K3-	100	.010	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KB123K3-	100	.012	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KB153K3-	100	.015	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KB393K3-	100	.039	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KB473K3-	100	.047	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KB823K3-	100	.082	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KB104K3-	100	.10	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KB124K3-	100	.12	M, P, R, S	1.125	0.400	1.062	0.400
CQR39A-KB154K3-	100	.15	M, P, R, S	1.125	0.400	1.062	0.400
CQR39A-KB184K3-	100	.18	M, P, R, S	1.375	0.400	1.312	0.400
CQR39A-KB224K3-	100	.22	M, P, R, S	1.375	0.400	1.312	0.400
CQR39A-KB274K3-	100	.27	M, P, R, S	1.125	0.562	1.062	0.562
CQR39A-KB334K3-	100	.33	M, P, R, S	1.125	0.562	1.062	0.562
CQR39A-KB394K3-	100	.39	M, P, R, S	1.375	0.562	1.312	0.562
CQR39A-KB474K3-	100	.47	M, P, R, S	1.375	0.562	1.312	0.562
CQR39A-KB564K3-	100	.56	M, P, R, S	1.625	0.562	1.562	0.562
CQR39A-KB684K3-	100	.68	M, P, R, S	1.625	0.562	1.562	0.562
CQR39A-KB824K3-	100	.82	M, P, R, S	1.625	0.670	1.562	0.670
CQR39A-KB105K3-	100	1.0	M, P, R, S	1.625	0.670	1.562	0.670
CQR39A-KC392K3-	200	.0039	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KC472K3-	200	.0047	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KC562K3-	200	.0056	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KC682K3-	200	.0068	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KC183K3-	200	.018	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KC223K3-	200	.022	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KC273K3-	200	.027	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KC333K3-	200	.033	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KC393K3-	200	.039	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KC473K3-	200	.047	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KC563K3-	200	.056	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KC683K3-	200	.068	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KC823K3-	200	.082	M, P, R, S	1.125	0.400	1.062	0.400
CQR39A-KC104K3-	200	.10	M, P, R, S	1.125	0.400	1.062	0.400
CQR39A-KC124K3-	200	.12	M, P, R, S	1.375	0.400	1.312	0.400
CQR39A-KC154K3-	200	.15	M, P, R, S	1.375	0.400	1.312	0.400
CQR39A-KC184K3-	200	.18	M, P, R, S	1.125	0.562	1.062	0.562
CQR39A-KC224K3-	200	.22	M, P, R, S	1.125	0.562	1.062	0.562
CQR39A-KC274K3-	200	.27	M, P, R, S	1.375	0.562	1.312	0.562
CQR39A-KC334K3-	200	.33	M, P, R, S	1.375	0.562	1.312	0.562
CQR39A-KC394K3-	200	.39	M, P, R, S	1.625	0.562	1.562	0.562
CQR39A-KC474K3-	200	.47	M, P, R, S	1.625	0.562	1.562	0.562
CQR39A-KC564K3-	200	.56	M, P, R, S	1.625	0.670	1.562	0.670
CQR39A-KC684K3-	200	.68	M, P, R, S	1.625	0.670	1.562	0.670
CQR39A-KC824K3-	200	.82	M, P, R, S	2.125	0.750	2.062	0.750
CQR39A-KC105K3-	200	1.0	M, P, R, S	2.125	0.750	2.062	0.750

See footnotes at end of table.

TABLE I. Styles CQR39 capacitors - Continued.

(PIN) <u>1/</u>	DC voltage rating (volts)	Capacitance rating (μ F)	Failure rate level	Case dimensions <u>2/ 3/</u>			
				Circuit 1		Circuit 3	
				L $\pm$.031	D+.015 -.005	L $\pm$.031	D+.015 -.005
CQR39A-KE272K3-	400	.0027	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KE332K3-	400	.0033	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KE123K3-	400	.012	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KE153K3-	400	.015	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KE273K3-	400	.027	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KE333K3-	400	.033	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KE393K3-	400	.039	M, P, R, S	1.125	0.400	1.062	0.400
CQR39A-KE473K3-	400	.047	M, P, R, S	1.125	0.400	1.062	0.400
CQR39A-KE563K3-	400	.056	M, P, R, S	1.375	0.400	1.312	0.400
CQR39A-KE683K3-	400	.068	M, P, R, S	1.375	0.400	1.312	0.400
CQR39A-KE823K3-	400	.082	M, P, R, S	1.125	0.562	1.062	0.562
CQR39A-KE104K3-	400	.10	M, P, R, S	1.125	0.562	1.062	0.562
CQR39A-KE124K3-	400	.12	M, P, R, S	1.375	0.562	1.312	0.562
CQR39A-KE154K3-	400	.15	M, P, R, S	1.375	0.562	1.312	0.562
CQR39A-KE184K3-	400	.18	M, P, R, S	1.625	0.562	1.562	0.562
CQR39A-KE224K3-	400	.22	M, P, R, S	1.625	0.562	1.562	0.562
CQR39A-KE274K3-	400	.27	M, P, R, S	1.625	0.670	1.562	0.670
CQR39A-KE334K3-	400	.33	M, P, R, S	1.625	0.670	1.562	0.670
CQR39A-KE394K3-	400	.39	M, P, R, S	2.125	0.750	2.062	0.750
CQR39A-KE474K3-	400	.47	M, P, R, S	2.125	0.750	2.062	0.750
CQR39A-KF102K3-	600	.0010	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KF122K3-	600	.0012	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KF152K3-	600	.0015	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KF182K3-	600	.0018	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KF222K3-	600	.0022	M, P, R, S	0.750	0.235	0.688	0.235
CQR39A-KF272K3-	600	.0027	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KF332K3-	600	.0033	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KF392K3-	600	.0039	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KF472K3-	600	.0047	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KF562K3-	600	.0056	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KF682K3-	600	.0068	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KF822K3-	600	.0082	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KF103K3-	600	.010	M, P, R, S	0.875	0.312	0.812	0.312
CQR39A-KF123K3-	600	.012	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KF153K3-	600	.015	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KF183K3-	600	.018	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KF223K3-	600	.022	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KF273K3-	600	.027	M, P, R, S	1.125	0.400	1.062	0.400
CQR39A-KF333K3-	600	.033	M, P, R, S	1.125	0.400	1.062	0.400
CQR39A-KF393K3-	600	.039	M, P, R, S	1.375	0.400	1.312	0.400
CQR39A-KF473K3-	600	.047	M, P, R, S	1.375	0.400	1.312	0.400
CQR39A-KF563K3-	600	.056	M, P, R, S	1.125	0.562	1.062	0.562
CQR39A-KF683K3-	600	.068	M, P, R, S	1.125	0.562	1.062	0.562
CQR39A-KF823K3-	600	.082	M, P, R, S	1.375	0.562	1.312	0.562
CQR39A-KF104K3-	600	.10	M, P, R, S	1.375	0.562	1.312	0.562
CQR39A-KF124K3-	600	.12	M, P, R, S	1.625	0.562	1.562	0.562
CQR39A-KF154K3-	600	.15	M, P, R, S	1.625	0.562	1.562	0.562

See footnotes at end of table.

TABLE I. Styles CQR39 capacitors - Continued.

(PIN) <u>1/</u>	DC voltage rating (volts)	Capacitance rating (μ F)	Failure rate level	Case dimensions <u>2/ 3/</u>			
				Circuit 1		Circuit 3	
				L $\pm$.031	D+.015 -.005	L $\pm$.031	D+.015 -.005
CQR39A-KF184K3-	600	.18	M, P, R, S	1.625	0.670	1.562	0.670
CQR39A-KF224K3-	600	.22	M, P, R, S	1.625	0.670	1.562	0.670
CQR39A-KF274K3-	600	.27	M, P, R, S	2.125	0.750	2.062	0.750
CQR39A-KF334K3-	600	.33	M, P, R, S	2.125	0.750	2.062	0.750
CQR39A-KF394K3-	600	.39	M, P, R, S	2.375	0.750	2.312	0.750
CQR39A-KF474K3-	600	.47	M, P, R, S	2.375	0.750	2.312	0.750
CQR39A-KG102K3-	1000	.0010	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG122K3-	1000	.0012	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG152K3-	1000	.0015	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG182K3-	1000	.0018	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG222K3-	1000	.0022	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG272K3-	1000	.0027	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG332K3-	1000	.0033	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG392K3-	1000	.0039	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG472K3-	1000	.0047	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG562K3-	1000	.0056	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG682K3-	1000	.0068	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG822K3-	1000	.0082	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG103K3-	1000	.010	M, P, R, S	0.875	0.400	0.812	0.400
CQR39A-KG123K3-	1000	.012	M, P, R, S	1.125	0.400	1.062	0.400
CQR39A-KG153K3-	1000	.015	M, P, R, S	1.125	0.400	1.062	0.400
CQR39A-KG183K3-	1000	.018	M, P, R, S	1.375	0.400	1.312	0.400
CQR39A-KG223K3-	1000	.022	M, P, R, S	1.375	0.400	1.312	0.400
CQR39A-KG273K3-	1000	.027	M, P, R, S	1.125	0.562	1.062	0.562
CQR39A-KG333K3-	1000	.033	M, P, R, S	1.125	0.562	1.062	0.562
CQR39A-KG393K3-	1000	.039	M, P, R, S	1.375	0.562	1.312	0.562
CQR39A-KG473K3-	1000	.047	M, P, R, S	1.375	0.562	1.312	0.562
CQR39A-KG563K3-	1000	.056	M, P, R, S	1.625	0.562	1.562	0.562
CQR39A-KG683K3-	1000	.068	M, P, R, S	1.625	0.562	1.562	0.562
CQR39A-KG823K3-	1000	.082	M, P, R, S	1.625	0.670	1.562	0.670
CQR39A-KG104K3-	1000	.10	M, P, R, S	1.625	0.670	1.562	0.670
CQR39A-KG124K3-	1000	.12	M, P, R, S	1.875	0.670	1.812	0.670
CQR39A-KG154K3-	1000	.15	M, P, R, S	1.875	0.670	1.812	0.670
CQR39A-KG184K3-	1000	.18	M, P, R, S	2.125	0.750	2.062	0.750
CQR39A-KG224K3-	1000	.22	M, P, R, S	2.125	0.750	2.062	0.750
CQR39A-KG274K3-	1000	.27	M, P, R, S	2.125	1.000	2.062	1.000
CQR39A-KG334K3-	1000	.33	M, P, R, S	2.125	1.000	2.062	1.000
CQR39A-KG394K3-	1000	.39	M, P, R, S	2.375	1.000	2.312	1.000
CQR39A-KG474K3-	1000	.47	M, P, R, S	2.375	1.000	2.312	1.000

1/ Complete part number shall include additional symbols to indicate circuit symbol and failure rate level, as applicable.

2/ Dimensions are for basic case; sleeving shall extend 0.016 inch minimum, 0.062 inch maximum, beyond each end of the capacitor body; however, if a shrink-fitted insulation is used for the sleeving, it shall lap over the ends of the capacitor body. Add 0.047 inch maximum to the nominal for capacitor diameter.

3/ Dimensions are in inches. See [table II](#) for metric equivalents.

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TABLE II. Millimeter equivalent of decimal inches.

Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.005	0.13	.235	5.97	.750	19.05	1.312	33.32	2.062	52.37
.015	0.38	.312	7.92	.812	20.62	1.375	34.93	2.125	53.98
.016	0.41	.400	10.16	.875	22.23	1.562	39.67	2.312	58.72
.031	0.79	.562	14.27	1.000	25.40	1.625	41.28	2.375	60.33
.047	1.19	.670	17.02	1.062	26.97	1.812	46.02		
.062	1.57	.688	17.48	1.125	28.58	1.875	47.63		

Insulation resistance (IR):

Sleeving: In accordance with [MIL-PRF-19978](#).

Terminal to terminal: See [table III](#).

Terminal to case: Greater than 10,000 megohms.

TABLE III. Terminal-to-terminal insulation resistance.

Capacitance rating	Minimum insulation resistance
	<u>At +25°C</u>
0 to 0.6 microfarad	25,000 megohms
Greater than 0.6 microfarad	15,000 megohm-microfarads <u>1/</u>
	<u>At +125°C</u>
0 to 0.08 microfarad	250 megohms
Greater than 0.08 microfarad	20 megohm-microfarads <u>1/</u>

1/ Product obtained by multiplying the capacitance in microfarads by the insulation resistance in megohms.

Vibration, high frequency: [MIL-STD-202-204](#), test condition B, with the following exception:

Direction and duration of motion: 4 hours in each of two mutually perpendicular directions (total of 8 hours), one parallel and the other perpendicular to the cylindrical axis.

Salt atmosphere: In accordance with [MIL-PRF-19978](#).

Immersion:

DWV:

Sleeving: In accordance with [MIL-PRF-19978](#).

IR:

Sleeving: In accordance with [MIL-PRF-19978](#).

Solderability: In accordance with [MIL-PRF-19978](#).

Terminal strength: [MIL-STD-202-211](#), test condition letter D.

MIL-PRF-19978/16C

Moisture resistance:

DWV:

Sleeving: In accordance with [MIL-PRF-19978](#).

IR:

Sleeving: In accordance with [MIL-PRF-19978](#).

Stability at low and high temperature:

Low temperature:

Test temperature: -65°C +0°, -5°C.

Capacitance change (max): -10 percent.

High temperature:

Test temperature: +125°C +5°, -0°C.

Capacitance change (max): +10 percent.

Life:

Capacitance change (max): ±5 percent.

Resistance to soldering heat: In accordance with [MIL-PRF-19978](#).

TABLE IV. Substitutability data. [1/](#)

From MIL-C-25/1K (CP08 and CP09)	To MIL-PRF-19978/16 (CQR39)	From MIL-C-25/1K (CP08 and CP09)	To MIL-PRF-19978/16 (CQR39)
CP--A-KB822K-	CQR39A-KB822K3-	CP--A-KC224K-	CQR39A-KC224K3-
CP--A-KB103K-	CQR39A-KB103K3-	CP--A-KC274K-	CQR39A-KC274K3-
CP--A-KB123K-	CQR39A-KB123K3-	CP--A-KC334K-	CQR39A-KC334K3-
CP--A-KB153K-	CQR39A-KB153K3-	CP--A-KC394K-	CQR39A-KC394K3-
CP--A-KB393K-	CQR39A-KB393K3-	CP--A-KC474K-	CQR39A-KC474K3-
CP--A-KB473K-	CQR39A-KB473K3-	CP--A-KC564K-	CQR39A-KC564K3-
CP--A-KB823K-	CQR39A-KB823K3-	CP--A-KC684K-	CQR39A-KC684K3-
CP--A-KB104K-	CQR39A-KB104K3-	CP--A-KC824K-	CQR39A-KC824K3-
CP--A-KB124K-	CQR39A-KB124K3-	CP--A-KC105K-	CQR39A-KC105K3-
CP--A-KB154K-	CQR39A-KB154K3-	CP--A-KE272K-	CQR39A-KE272K3-
CP--A-KB184K-	CQR39A-KB184K3-	CP--A-KE332K-	CQR39A-KE332K3-
CP--A-KB224K-	CQR39A-KB224K3-	CP--A-KE123K-	CQR39A-KE123K3-
CP--A-KB274K-	CQR39A-KB274K3-	CP--A-KE153K-	CQR39A-KE153K3-
CP--A-KB334K-	CQR39A-KB334K3-	CP--A-KE273K-	CQR39A-KE273K3-
CP--A-KB394K-	CQR39A-KB394K3-	CP--A-KE333K-	CQR39A-KE333K3-
CP--A-KB474K-	CQR39A-KB474K3-	CP--A-KE393K-	CQR39A-KE393K3-
CP--A-KB564K-	CQR39A-KB564K3-	CP--A-KE473K-	CQR39A-KE473K3-
CP--A-KB684K-	CQR39A-KB684K3-	CP--A-KE563K-	CQR39A-KE563K3-
CP--A-KB824K-	CQR39A-KB824K3-	CP--A-KE683K-	CQR39A-KE683K3-

[See footnote at end of table.](#)

TABLE IV. Substitutability data - Continued. [1/](#)

From MIL-C-25/1K (CP08 and CP09)	To MIL-PRF-19978/16 (CQR39)	From MIL-C-25/1K (CP08 and CP09)	To MIL-PRF-19978/16 (CQR39)
CP--A-KB105K-	CQR39A-KB105K3-	CP--A-KE823K-	CQR39A-KE823K3-
CP--A-KC392K-	CQR39A-KC392K3-	CP--A-KE104K-	CQR39A-KE104K3-
CP--A-KC472K-	CQR39A-KC472K3-	CP--A-KE124K-	CQR39A-KE124K3-
CP--A-KC562K-	CQR39A-KC562K3-	CP--A-KE154K-	CQR39A-KE154K3-
CP--A-KC682K-	CQR39A-KC682K3-	CP--A-KE184K-	CQR39A-KE184K3-
CP--A-KC183K-	CQR39A-KC183K3-	CP--A-KE224K-	CQR39A-KE224K3-
CP--A-KC223K-	CQR39A-KC223K3-	CP--A-KE274K-	CQR39A-KE274K3-
CP--A-KC273K-	CQR39A-KC273K3-	CP--A-KE334K-	CQR39A-KE334K3-
CP--A-KC333K-	CQR39A-KC333K3-	CP--A-KE394K-	CQR39A-KE394K3-
CP--A-KC393K-	CQR39A-KC393K3-	CP--A-KE474K-	CQR39A-KE474K3-
CP--A-KC473K-	CQR39A-KC473K3-	CP--A-KF102K-	CQR39A-KF102K3-
CP--A-KC563K-	CQR39A-KC563K3-	CP--A-KF122K-	CQR39A-KF122K3-
CP--A-KC683K-	CQR39A-KC683K3-	CP--A-KF152K-	CQR39A-KF152K3-
CP--A-KC823K-	CQR39A-KC823K3-	CP--A-KF182K-	CQR39A-KF182K3-
CP--A-KC104K-	CQR39A-KC104K3-	CP--A-KF222K-	CQR39A-KF222K3-
CP--A-KC124K-	CQR39A-KC124K3-	CP--A-KF272K-	CQR39A-KF272K3-
CP--A-KC154K-	CQR39A-KC154K3-	CP--A-KF332K-	CQR39A-KF332K3-
CP--A-KC184K-	CQR39A-KC184K3-	CP--A-KF392K-	CQR39A-KF392K3-
CP--A-KF472K-	CQR39A-KF472K3-	CP--A-KG222K-	CQR39A-KG222K3-
CP--A-KF562K-	CQR39A-KF562K3-	CP--A-KG272K-	CQR39A-KG272K3-
CP--A-KF682K-	CQR39A-KF682K3-	CP--A-KG332K-	CQR39A-KG332K3-
CP--A-KF822K-	CQR39A-KF822K3-	CP--A-KG392K-	CQR39A-KG392K3-
CP--A-KF103K-	CQR39A-KF103K3-	CP--A-KG472K-	CQR39A-KG472K3-
CP--A-KF123K-	CQR39A-KF123K3-	CP--A-KG562K-	CQR39A-KG562K3-
CP--A-KF153K-	CQR39A-KF153K3-	CP--A-KG682K-	CQR39A-KG682K3-
CP--A-KF183K-	CQR39A-KF183K3-	CP--A-KG822K-	CQR39A-KG822K3-
CP--A-KF223K-	CQR39A-KF223K3-	CP--A-KG103K-	CQR39A-KG103K3-
CP--A-KF273K-	CQR39A-KF273K3-	CP--A-KG123K-	CQR39A-KG123K3-
CP--A-KF333K-	CQR39A-KF333K3-	CP--A-KG153K-	CQR39A-KG153K3-
CP--A-KF393K-	CQR39A-KF393K3-	CP--A-KG183K-	CQR39A-KG183K3-
CP--A-KF473K-	CQR39A-KF473K3-	CP--A-KG223K-	CQR39A-KG223K3-
CP--A-KF563K-	CQR39A-KF563K3-	CP--A-KG273K-	CQR39A-KG273K3-
CP--A-KF683K-	CQR39A-KF683K3-	CP--A-KG333K-	CQR39A-KG333K3-
CP--A-KF823K-	CQR39A-KF823K3-	CP--A-KG393K-	CQR39A-KG393K3-
CP--A-KF104K-	CQR39A-KF104K3-	CP--A-KG473K-	CQR39A-KG473K3-
CP--A-KF124K-	CQR39A-KF124K3-	CP--A-KG563K-	CQR39A-KG563K3-
CP--A-KF154K-	CQR39A-KF154K3-	CP--A-KG683K-	CQR39A-KG683K3-
CP--A-KF184K-	CQR39A-KF184K3-	CP--A-KG823K-	CQR39A-KG823K3-
CP--A-KF224K-	CQR39A-KF224K3-	CP--A-KG104K-	CQR39A-KG104K3-
CP--A-KF274K-	CQR39A-KF274K3-	CP--A-KG124K-	CQR39A-KG124K3-
CP--A-KF334K-	CQR39A-KF334K3-	CP--A-KG154K-	CQR39A-KG154K3-
CP--A-KF394K-	CQR39A-KF394K3-	CP--A-KG184K-	CQR39A-KG184K3-
CP--A-KF474K-	CQR39A-KF474K3-	CP--A-KG224K-	CQR39A-KG224K3-
CP--A-KG102K-	CQR39A-KG102K3-	CP--A-KG274K-	CQR39A-KG274K3-
CP--A-KG122K-	CQR39A-KG122K3-	CP--A-KG334K-	CQR39A-KG334K3-
CP--A-KG152K-	CQR39A-KG152K3-	CP--A-KG394K-	CQR39A-KG394K3-
CP--A-KG182K-	CQR39A-KG182K3-	CP--A-KG474K-	CQR39A-KG474K3-

[1/](#) NOTE: Style CQR39 capacitors are substitutable for styles CP08 and CP09 capacitors formerly covered in [MIL-C-25/1K](#).

Referenced documents: In addition to [MIL-PRF-19978](#), this document references the following:

[MIL-STD-202-112](#)
[MIL-STD-202-204](#)
[MIL-STD-202-211](#)

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 last previous issue.

Custodians:

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

Preparing activity:

DLA - CC

(Project 5910-2022-002)

Review activities:

Army - AR, AT, AV, MI
Navy - AS, MC, OS, SH

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/>.