

PERFORMANCE SPECIFICATION SHEET

CAPACITOR, FIXED, ELECTROLYTIC
(ALUMINUM OXIDE), (POLARIZED), ESTABLISHED
RELIABILITY, STYLE CUR92 (INSULATED)

INACTIVE FOR NEW DESIGN AFTER 31 MARCH 1999.
NO LONGER USED EXCEPT FOR REPLACEMENT PURPOSES.

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 the latest issue of [MIL-PRF-39018](#).

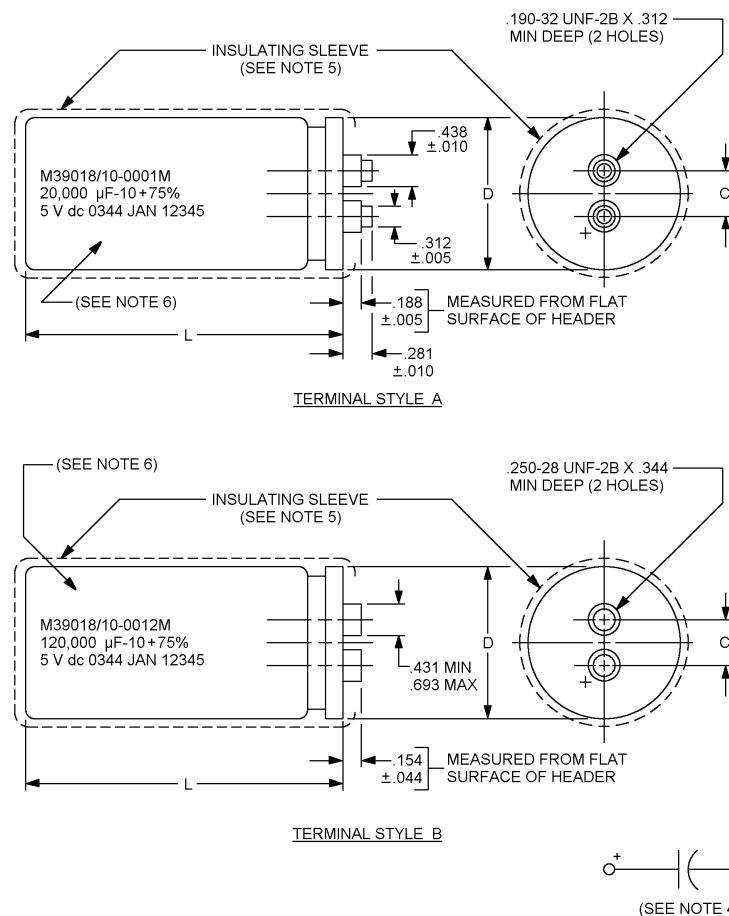


FIGURE 1. Style CUR92 capacitors.



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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Capacitors are mounted by means of a wraparound, footed-type bracket.
4. There is an indeterminate resistance between the metal case and the negative terminal.
5. Insulating sleeve thickness shall not exceed .016 inch (0.41 mm) and shall overlap the ends of the capacitor body.
6. Example of marking and its relative location on the capacitor body.
7. Terminal screws will not be furnished with capacitors.

CUR92 case code

Case size	Bare case dimensions			Terminal style
	L ± .062 (1.57)	D ± .031 (0.79)	C ± .016 (0.41)	
AA	2.125	1.375	.500	A
AB	3.125	1.375	.500	A
AC	4.125	1.375	.500	A
AD	4.625	1.375	.500	A
AE	5.125	1.375	.500	A
AF	5.625	1.375	.500	A
BB	3.125	2.000	.875	A
BC	4.125	2.000	.875	A
BD	4.625	2.000	.875	A
BE	5.125	2.000	.875	A
BF	5.625	2.000	.875	A
CB	3.125	2.500	1.125	B
CC	4.125	2.500	1.125	B
CD	4.625	2.500	1.125	B
CE	5.125	2.500	1.125	B
CF	5.625	2.500	1.125	B
DC	4.125	3.000	1.250	B
DD	4.625	3.000	1.250	B
DE	5.125	3.000	1.250	B
DF	5.625	3.000	1.250	B

Inches	mm	Inches	mm	Inches	mm
.005	0.13	.281	7.14	1.375	34.92
.010	0.25	.312	7.92	2.000	50.80
.016	0.41	.344	8.74	2.125	53.98
.031	0.79	.431	10.95	2.500	63.50
.044	1.12	.438	11.13	3.000	76.20
.062	1.57	.500	12.70	3.125	79.38
.154	3.71	.693	17.60	4.125	104.78
.188	4.78	.875	22.22	4.625	117.48
.190	4.83	1.125	28.58	5.125	130.18
.250	6.35	1.250	31.75	5.625	142.88

FIGURE 1. Style CUR92 capacitors - Continued.

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TABLE I. Style CUR92 capacitors.

DC rated voltage at +105°C	Capacitance (nom)	DC surge voltage at +105°C	ESR at +25°C		Impedance at 100 kHz		DC leakage		Max ac ripple <u>1/</u> current at +85°C		Case size	Dash number <u>2/</u>
			120 Hz	20 kHz	+25°C	-55°C	+25°C	+105°C	120 Hz	20 kHz		
Volts	μF	Volts	Ohms		Ohms		mA		Amps			
5	20,000	7	.028	.021	.040	.320	.47	4.23	7.2	8.31	AA	0001-
5	37,000	7	.016	.012	.030	.224	.64	5.76	11.1	12.8	AB	0002-
5	54,000	7	.012	.010	.028	.192	.77	6.93	14.4	15.7	AC	0003-
5	62,000	7	.010	.0085	.027	.184	.82	7.38	15.4	16.6	AD	0004-
5	70,000	7	.0095	.0078	.026	.176	.88	7.92	16.3	17.4	AE	0005-
5	78,000	7	.0089	.0073	.026	.176	.93	8.37	16.4	17.4	AF	0006-
5	76,000	7	.012	.010	.027	.110	.91	8.19	15.9	17.2	BB	0007-
5	110,000	7	.0093	.0080	.025	.105	1.06	9.54	20.3	21.9	BC	0008-
5	130,000	7	.0084	.0073	.025	.100	1.16	10.4	22.4	24.0	BD	0009-
5	150,000	7	.0079	.0067	.025	.100	1.26	11.3	24.1	25.6	BE	0010-
5	170,000	7	.0074	.0064	.024	.100	1.34	12.0	24.7	26.3	BF	0011-
5	120,000	7	.011	.0085	.028	.115	1.16	10.4	19.5	22.1	CB	0012-
5	180,000	7	.0078	.0062	.026	.110	1.42	12.7	23.8	26.8	CC	0013-
5	220,000	7	.0069	.0057	.026	.110	1.57	14.1	25.3	27.8	CD	0014-
5	250,000	7	.0062	.0051	.025	.105	1.68	15.1	26.6	28.7	CE	0015-
5	280,000	7	.0058	.0048	.025	.105	1.78	16.0	27.5	29.4	CF	0016-
5	280,000	7	.0078	.0068	.027	.130	1.78	16.0	26.3	26.5	DC	0017-
5	320,000	7	.0070	.0062	.026	.130	1.90	17.1	28.3	28.6	DD	0018-
5	370,000	7	.0065	.0057	.026	.130	2.04	18.3	30.0	30.3	DE	0019-
5	420,000	7	.0061	.0054	.025	.125	2.17	19.5	31.4	31.4	DF	0020-
10	14,000	15	.028	.021	.041	.328	.52	4.68	7.20	8.31	AA	0021-
10	24,000	15	.016	.012	.030	.232	.72	6.48	11.1	12.8	AB	0022-
10	36,000	15	.012	.010	.028	.200	.86	7.74	14.4	15.7	AC	0023-
10	41,000	15	.011	.0087	.027	.184	.93	8.37	15.4	16.6	AD	0024-
10	47,000	15	.010	.0080	.026	.184	.98	8.82	16.3	17.4	AE	0025-
10	52,000	15	.0095	.0074	.026	.176	1.04	9.36	16.4	17.4	AF	0026-
10	50,000	15	.013	.010	.027	.110	1.02	9.18	15.6	17.2	BB	0027-
10	76,000	15	.0097	.0080	.025	.105	1.25	11.2	19.9	21.9	BC	0028-
10	89,000	15	.0088	.0073	.025	.100	1.35	12.1	21.9	24.0	BD	0029-
10	100,000	15	.0080	.0067	.025	.100	1.45	13.0	24.0	25.6	BE	0030-
10	120,000	15	.0076	.0064	.024	.100	1.50	13.5	24.7	26.3	BF	0031-
10	79,000	15	.011	.0085	.028	.115	1.33	11.9	19.5	22.1	CB	0032-
10	110,000	15	.0078	.0062	.026	.110	1.57	14.3	23.8	26.8	CC	0033-
10	130,000	15	.0069	.0057	.026	.110	1.71	15.9	25.3	27.8	CD	0034-
10	150,000	15	.0062	.0051	.025	.105	1.84	16.6	26.6	28.7	CE	0035-
10	170,000	15	.0058	.0048	.025	.105	1.96	17.4	27.5	29.4	CF	0036-
10	170,000	15	.0079	.0068	.027	.130	1.96	17.4	26.3	26.5	DC	0037-
10	200,000	15	.0071	.0062	.026	.130	2.12	19.8	28.3	28.6	DD	0038-
10	230,000	15	.0066	.0057	.025	.130	2.27	20.3	30.0	30.3	DE	0039-
10	260,000	15	.0061	.0054	.025	.125	2.42	21.8	31.4	31.4	DF	0040-
15	7,600	20	.030	.022	.043	.344	.56	5.04	6.98	8.14	AA	0041-
15	13,000	20	.018	.013	.030	.240	.74	6.66	10.5	12.1	AB	0042-
15	19,000	20	.013	.010	.028	.200	.90	8.10	13.8	15.7	AC	0043-
15	22,000	20	.012	.0091	.026	.192	.96	8.64	15.1	17.3	AD	0044-
15	25,000	20	.011	.0085	.025	.184	1.02	9.18	16.3	18.8	AE	0045-
15	28,000	20	.010	.0079	.025	.176	1.09	9.81	16.6	20.3	AF	0046-
15	27,000	20	.013	.011	.031	.115	1.06	9.54	15.2	17.2	BB	0047-
15	42,000	20	.0099	.0080	.026	.105	1.30	11.7	19.3	21.5	BC	0048-
15	49,000	20	.0090	.0073	.025	.100	1.41	12.6	20.7	22.9	BD	0049-

See footnotes at end of table.

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TABLE I. Style CUR92 capacitors - Continued.

DC rated voltage at +105°C	Capacitance (nom)	DC surge voltage at +105°C	ESR at +25°C		Impedance at 100 kHz		DC leakage		Max ac ripple ^{1/} current at +85°C		Case size	Dash number ^{2/}
			120 Hz	20 kHz	+25°C	-55°C	+25°C	+105°C	120 Hz	20 kHz		
Volts	μF	Volts	Ohms		Ohms		mA		Amps			
15	56,000	20	.0083	.0067	.025	.100	1.50	13.5	21.8	24.1	BE	0050-
15	63,000	20	.0078	.0064	.025	.100	1.60	14.4	22.5	24.7	BF	0051-
15	58,000	20	.013	.011	.029	.110	1.40	12.6	17.3	18.9	CB	0052-
15	87,000	20	.0090	.0080	.026	.110	1.71	15.3	21.3	23.0	CC	0053-
15	100,000	20	.0079	.0070	.026	.110	1.84	16.5	22.7	24.3	CD	0054-
15	110,000	20	.0072	.0065	.026	.105	1.93	17.3	25.0	26.2	CE	0055-
15	130,000	20	.0066	.0060	.025	.105	2.10	18.9	26.0	27.8	CF	0056-
15	130,000	20	.0099	.0090	.027	.130	2.10	18.9	25.7	25.9	DC	0057-
15	150,000	20	.0086	.0080	.026	.130	2.25	20.2	26.5	26.9	DD	0058-
15	170,000	20	.0078	.0072	.026	.130	2.40	21.6	27.5	27.7	DE	0059-
15	190,000	20	.0070	.0065	.026	.125	2.53	22.7	29.0	29.5	DF	0060-
20	6,400	30	.031	.022	.043	.430	.55	4.95	6.81	8.19	AA	0061-
20	11,000	30	.020	.014	.030	.300	.74	6.66	10.0	11.9	AB	0062-
20	16,000	30	.014	.010	.026	.250	.88	7.92	13.3	15.6	AC	0063-
20	19,000	30	.013	.0093	.026	.240	.95	8.55	14.7	17.2	AD	0064-
20	21,000	30	.012	.0085	.025	.230	1.02	9.18	15.8	18.8	AE	0065-
20	24,000	30	.011	.0080	.025	.220	1.08	9.72	16.0	20.2	AF	0066-
20	23,000	30	.014	.011	.028	.138	1.06	9.54	15.1	17.2	BB	0067-
20	35,000	30	.010	.0080	.026	.126	1.29	11.6	19.0	21.5	BC	0068-
20	41,000	30	.0094	.0073	.025	.120	1.39	12.2	20.3	22.9	BD	0069-
20	47,000	30	.0087	.0067	.025	.120	1.50	13.5	21.3	24.1	BE	0070-
20	53,000	30	.0081	.0064	.025	.120	1.59	14.3	22.2	24.7	BF	0071-
20	43,000	30	.013	.011	.029	.138	1.39	12.5	17.2	18.9	CB	0072-
20	64,000	30	.0092	.0080	.026	.132	1.70	15.3	21.1	23.0	CC	0073-
20	75,000	30	.0080	.0070	.026	.132	1.84	16.5	22.6	24.3	CD	0074-
20	86,000	30	.0073	.0065	.026	.126	1.97	17.7	24.5	26.2	CE	0075-
20	96,000	30	.0067	.0060	.025	.126	2.08	18.7	25.9	27.8	CF	0076-
20	96,000	30	.010	.0090	.027	.156	2.08	18.7	25.6	25.9	DC	0077-
20	110,000	30	.0087	.0080	.026	.156	2.23	20.0	26.5	26.9	DD	0078-
20	120,000	30	.0078	.0072	.026	.156	2.32	20.8	27.5	27.7	DE	0079-
20	140,000	30	.0070	.0065	.026	.150	2.51	22.5	28.8	29.5	DF	0080-
25	4,700	40	.034	.022	.044	.440	.53	4.77	6.54	8.19	AA	0081-
25	8,200	40	.021	.014	.030	.300	.72	6.48	9.67	11.9	AB	0082-
25	12,000	40	.015	.010	.026	.250	.86	7.74	12.7	15.5	AC	0083-
25	14,000	40	.014	.0094	.026	.240	.92	8.28	13.9	17.1	AD	0084-
25	16,000	40	.012	.0085	.025	.230	.98	8.82	14.7	18.8	AE	0085-
25	18,000	40	.012	.0080	.025	.220	1.03	9.27	15.0	20.2	AF	0086-
25	17,000	40	.015	.013	.031	.138	.90	8.10	14.3	17.1	BB	0087-
25	26,000	40	.010	.0081	.026	.126	1.23	11.0	18.2	21.5	BC	0088-
25	30,000	40	.0090	.0074	.025	.120	1.34	12.0	19.6	22.9	BD	0089-
25	35,000	40	.0084	.0068	.025	.120	1.42	12.7	20.5	24.1	BE	0090-
25	39,000	40	.0079	.0064	.025	.120	1.52	13.6	21.5	25.1	BF	0091-
25	31,000	40	.014	.011	.029	.138	1.32	11.8	16.8	18.9	CB	0092-
25	47,000	40	.010	.0080	.026	.132	1.63	14.6	20.7	23.0	CC	0093-
25	55,000	40	.0084	.0070	.026	.132	1.76	15.8	22.1	24.3	CD	0094-
25	63,000	40	.0076	.0065	.026	.126	1.88	16.9	24.0	26.2	CE	0095-
25	71,000	40	.0070	.0060	.025	.126	2.00	18.0	25.7	27.8	CF	0096-
25	70,000	40	.011	.0090	.027	.156	1.98	17.8	25.5	25.9	DC	0097-
25	82,000	40	.0090	.0080	.026	.156	2.15	19.3	26.5	26.9	DD	0098-
25	94,000	40	.0079	.0072	.026	.156	2.30	20.7	27.5	27.7	DE	0099-
25	100,000	40	.0073	.0065	.026	.150	2.37	21.3	28.6	29.5	DF	0100-

See footnotes at end of table.

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TABLE I. Style CUR92 capacitors - Continued.

DC rated voltage at +105°C	Capacitance (nom)	DC surge voltage at +105°C	ESR at +25°C		Impedance at 100 kHz		DC leakage		Max ac ripple ^{1/} current at +85°C		Case size	Dash number ^{2/}
			120 Hz	20 kHz	+25°C	-55°C	+25°C	+105°C	120 Hz	20 kHz		
Volts	μF	Volts	Ohms		Ohms		mA		Amps			
30	4,100	45	.037	.023	.044	.440	.55	4.95	6.31	8.01	AA	0101-
30	7,200	45	.022	.014	.030	.300	.74	6.66	9.56	11.9	AB	0102-
30	11,000	45	.017	.011	.026	.260	.86	7.74	12.2	15.1	AC	0103-
30	12,000	45	.015	.0097	.026	.250	.94	8.46	13.4	16.8	AD	0104-
30	14,000	45	.013	.0089	.025	.230	1.01	9.09	14.3	18.3	AE	0105-
30	15,000	45	.012	.0083	.025	.230	1.07	9.63	14.6	19.8	AF	0106-
30	15,000	45	.015	.013	.031	.138	1.04	9.36	14.0	16.8	BB	0107-
30	23,000	45	.012	.0082	.026	.126	1.30	11.7	17.9	21.5	BC	0108-
30	27,000	45	.010	.0074	.025	.120	1.40	12.6	18.7	22.9	BD	0109-
30	30,000	45	.0094	.0070	.025	.120	1.49	13.4	20.3	24.1	BE	0110-
30	34,000	45	.0088	.0065	.025	.120	1.58	14.2	21.0	24.7	BF	0111-
30	28,000	45	.014	.011	.029	.138	1.38	12.4	16.6	18.8	CB	0112-
30	43,000	45	.010	.0080	.026	.138	1.70	15.3	20.4	23.0	CC	0113-
30	50,000	45	.0087	.0070	.026	.132	1.84	16.5	21.8	24.2	CD	0114-
30	57,000	45	.0078	.0065	.026	.126	1.96	17.6	23.0	25.3	CE	0115-
30	64,000	45	.0072	.0060	.025	.126	2.08	18.7	25.1	27.6	CF	0116-
30	64,000	45	.011	.0090	.027	.156	2.08	18.7	23.3	24.3	DC	0117-
30	74,000	45	.0092	.0080	.026	.156	2.24	20.1	25.3	26.5	DD	0118-
30	85,000	45	.0082	.0072	.026	.156	2.40	21.6	27.5	27.7	DE	0119-
30	96,000	45	.0075	.0065	.026	.150	2.55	22.9	28.3	29.4	DF	0120-
40	3,000	55	.042	.023	.044	.440	.54	4.86	5.90	8.05	AA	0121-
40	5,100	55	.024	.014	.030	.300	.73	6.57	9.05	12.0	AB	0122-
40	7,400	55	.018	.010	.026	.250	.88	7.92	11.9	15.5	AC	0123-
40	8,700	55	.015	.0094	.025	.240	.94	8.46	12.4	17.1	AD	0124-
40	9,800	55	.016	.0088	.025	.230	1.00	9.00	13.1	18.5	AE	0125-
40	11,000	55	.013	.0080	.025	.230	1.04	9.36	13.3	20.2	AF	0126-
40	11,000	55	.017	.013	.031	.138	1.00	9.00	13.2	17.2	BB	0127-
40	16,000	55	.011	.0082	.026	.126	1.24	11.1	16.9	21.3	BC	0128-
40	19,000	55	.010	.0074	.025	.120	1.34	12.0	18.1	22.9	BD	0129-
40	22,000	55	.0098	.0068	.025	.120	1.44	12.9	19.2	23.8	BE	0130-
40	24,000	55	.009	.0065	.025	.120	1.53	13.7	20.0	24.7	BF	0131-
40	20,000	55	.015	.011	.029	.138	1.34	12.0	15.9	18.7	CB	0132-
40	30,000	55	.011	.0080	.026	.132	1.64	14.7	19.6	22.8	CC	0133-
40	35,000	55	.0094	.0070	.026	.132	1.78	16.0	21.0	24.3	CD	0134-
40	41,000	55	.0084	.0065	.026	.126	1.92	17.2	22.3	24.4	CE	0135-
40	46,000	55	.0077	.0060	.025	.126	2.04	18.3	23.1	26.2	CF	0136-
40	45,000	55	.011	.0090	.027	.156	2.01	18.0	22.2	24.1	DC	0137-
40	53,000	55	.0096	.0080	.026	.156	2.18	19.6	24.0	26.2	DD	0138-
40	61,000	55	.0086	.0072	.026	.156	2.34	21.0	25.5	27.7	DE	0139-
40	68,000	55	.0078	.0065	.026	.150	2.47	22.2	27.1	29.4	DF	0140-
50	2,200	75	.048	.023	.043	.430	.54	4.86	5.50	8.05	AA	0141-
50	3,900	75	.027	.014	.030	.300	.73	6.57	8.50	12.1	AB	0142-
50	5,700	75	.020	.010	.026	.250	.88	7.92	10.9	15.4	AC	0143-
50	6,600	75	.018	.0095	.026	.240	.94	8.46	11.5	17.0	AD	0144-
50	7,400	75	.016	.0087	.026	.230	1.01	9.09	12.3	18.6	AE	0145-
50	8,300	75	.015	.0083	.025	.220	1.06	9.54	12.5	19.8	AF	0146-
50	8,000	75	.018	.014	.032	.138	1.03	9.27	12.8	17.2	BB	0147-
50	12,000	75	.012	.0080	.026	.126	1.26	11.3	16.2	21.3	BC	0148-
50	14,000	75	.011	.0074	.025	.120	1.34	12.0	17.4	22.7	BD	0149-
50	16,000	75	.011	.0067	.025	.120	1.46	13.1	18.4	23.8	BE	0150-

See footnotes at end of table.

MIL-PRF-39018/10C

TABLE I. Style CUR92 capacitors - Continued.

DC rated voltage at +105°C	Capacitance (nom)	DC surge voltage at +105°C	ESR at +25°C		Impedance at 100 kHz		DC leakage		Max ac ripple ^{1/} current at +85°C		Case size	Dash number ^{2/}
			120 Hz	20 kHz	+25°C	-55°C	+25°C	+105°C	120 Hz	20 kHz		
Volts	μF	Volts	Ohms		Ohms		mA		Amps			
50	19,000	75	.0099	.0064	.025	.120	1.54	13.8	19.2	24.7	BF	0151-
50	16,000	75	.016	.012	.030	.138	1.34	12.0	15.4	18.6	CB	0152-
50	24,000	75	.012	.0085	.027	.132	1.64	14.7	19.1	22.6	CC	0153-
50	28,000	75	.010	.0075	.026	.132	1.78	16.0	20.4	23.6	CD	0154-
50	32,000	75	.0090	.0070	.026	.126	1.90	17.1	21.6	25.2	CE	0155-
50	36,000	75	.0082	.0065	.026	.126	2.01	18.0	22.4	26.0	CF	0156-
50	36,000	75	.012	.010	.028	.156	2.01	18.0	20.7	22.8	DC	0157-
50	42,000	75	.010	.0090	.027	.156	2.17	19.5	22.5	24.5	DD	0158-
50	48,000	75	.0090	.0080	.026	.156	2.32	20.8	24.0	26.0	DE	0159-
50	55,000	75	.0081	.0070	.026	.150	2.49	22.4	26.4	28.0	DF	0160-
75	1,200	100	.107	.060	.088	1.86	.49	4.41	3.69	4.94	AA	0161-
75	2,000	100	.060	.034	.055	1.00	.66	5.94	5.73	7.61	AB	0162-
75	3,000	100	.042	.024	.042	.840	.79	7.11	7.75	10.1	AC	0163-
75	3,500	100	.037	.021	.038	.760	.85	7.65	8.67	11.3	AD	0164-
75	4,000	100	.033	.019	.035	.700	.91	8.19	9.59	12.5	AE	0165-
75	4,400	100	.030	.017	.032	.640	.96	8.64	10.5	13.7	AF	0166-
75	4,300	100	.033	.020	.038	.720	.94	8.46	9.44	12.1	BB	0167-
75	6,600	100	.023	.014	.033	.528	1.16	10.4	12.6	16.1	BC	0168-
75	7,700	100	.020	.012	.025	.400	1.25	11.2	14.1	17.9	BD	0169-
75	8,800	100	.018	.011	.025	.400	1.30	11.7	15.3	19.3	BE	0170-
75	9,900	100	.017	.010	.025	.384	1.36	12.2	16.6	21.0	BF	0171-
75	9,100	100	.020	.013	.031	.400	1.24	11.1	13.9	17.7	CB	0172-
75	13,000	100	.014	.0097	.027	.384	1.48	13.3	17.0	21.9	CC	0173-
75	15,000	100	.013	.0088	.026	.368	1.59	14.1	18.6	23.1	CD	0174-
75	18,000	100	.011	.0078	.026	.368	1.74	15.6	19.8	24.4	CE	0175-
75	20,000	100	.010	.0072	.026	.352	1.84	16.5	20.6	25.4	CF	0176-
75	20,000	100	.014	.011	.029	.432	1.84	16.5	19.4	21.6	DC	0177-
75	23,000	100	.012	.010	.028	.416	1.97	17.7	20.7	23.4	DD	0178-
75	27,000	100	.011	.0090	.027	.416	2.14	19.2	22.1	24.5	DE	0179-
75	30,000	100	.0095	.0080	.026	.416	2.25	20.2	23.7	25.6	DF	0180-
100	750	150	.140	.059	.082	1.82	.42	3.78	3.23	4.97	AA	0181-
100	1,300	150	.082	.035	.057	1.14	.54	4.86	4.90	7.48	AB	0182-
100	2,000	150	.056	.025	.042	.840	.67	6.03	6.68	10.0	AC	0183-
100	2,200	150	.049	.022	.038	.760	.72	6.48	7.48	11.2	AD	0184-
100	2,600	150	.044	.020	.035	.700	.76	6.84	8.27	12.3	AE	0185-
100	2,900	150	.039	.018	.033	.660	.81	7.29	9.19	13.6	AF	0186-
100	2,800	150	.043	.018	.033	.528	.79	7.11	8.31	12.1	BB	0187-
100	4,100	150	.029	.014	.027	.432	.97	8.73	11.1	16.1	BC	0188-
100	4,900	150	.025	.011	.026	.400	1.04	9.36	12.4	17.7	BD	0189-
100	5,600	150	.023	.011	.025	.384	1.12	10.0	13.8	19.7	BE	0190-
100	6,200	150	.020	.010	.023	.368	1.19	10.7	15.1	21.3	BF	0191-
100	4,800	150	.026	.014	.032	.432	1.04	9.36	12.2	17.6	CB	0192-
100	7,200	150	.018	.010	.028	.384	1.27	11.4	15.5	21.0	CC	0193-
100	8,400	150	.016	.090	.027	.368	1.37	12.3	17.6	22.1	CD	0194-
100	9,600	150	.014	.0080	.026	.368	1.47	13.2	18.2	23.3	CE	0195-
100	10,000	150	.013	.0075	.026	.368	1.50	13.5	18.7	23.9	CF	0196-
100	10,000	150	.016	.012	.030	.432	1.50	13.5	17.8	20.5	DC	0197-
100	12,000	150	.014	.011	.029	.416	1.64	14.7	19.6	21.9	DD	0198-
100	14,000	150	.013	.010	.028	.416	1.78	16.0	20.8	23.2	DE	0199-
100	16,000	150	.011	.0090	.027	.416	1.90	17.1	22.2	24.6	DF	0200-

See footnotes at end of table.

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TABLE I. Style CUR92 capacitors - Continued.

DC rated voltage at +105°C	Capacitance (nom)	DC surge voltage at +105°C	ESR at +25°C		Impedance at 100 kHz		DC leakage		Max ac ripple ^{1/} current at +85°C		Case size	Dash number ^{2/}
			120 Hz	20 kHz	+25°C	-55°C	+25°C	+105°C	120 Hz	20 kHz		
Volts	μF	Volts	Ohms		Ohms		mA		Amps			
150	290	200	.377	.114	.138	3.86	.30	2.70	1.96	3.60	AA	0201-
150	520	200	.209	.064	.085	2.28	.40	3.60	3.07	5.57	AB	0202-
150	750	200	.146	.046	.062	1.59	.48	4.32	4.14	7.40	AC	0203-
150	870	200	.126	.040	.055	1.34	.52	4.68	4.67	8.30	AD	0204-
150	990	200	.111	.036	.049	1.15	.55	4.95	5.20	9.20	AE	0205-
150	1,100	200	.101	.033	.046	1.02	.58	5.22	5.70	10.0	AF	0206-
150	1,000	200	.104	.033	.046	.966	.57	5.13	5.46	9.78	BB	0207-
150	1,500	200	.072	.023	.035	.693	.69	6.21	7.33	12.9	BC	0208-
150	1,800	200	.063	.021	.032	.595	.74	6.66	8.19	14.4	BD	0209-
150	2,100	200	.054	.018	.030	.528	.80	7.20	9.26	16.1	BE	0210-
150	2,300	200	.049	.017	.028	.459	.84	7.56	10.0	17.4	BF	0211-
150	1,800	200	.063	.021	.034	.516	.74	6.66	8.06	14.2	CB	0212-
150	2,700	200	.043	.014	.028	.392	.90	8.10	10.8	18.8	CC	0213-
150	3,000	200	.037	.013	.026	.338	.97	8.73	12.2	20.9	CD	0214-
150	3,500	200	.032	.011	.025	.295	1.06	9.54	13.7	23.2	CE	0215-
150	3,900	200	.029	.010	.024	.254	1.12	10.0	15.0	25.2	CF	0216-
150	3,900	200	.031	.011	.029	.272	1.10	9.90	14.3	23.6	DC	0217-
150	4,600	200	.026	.010	.028	.232	1.21	10.8	16.2	26.3	DD	0218-
150	5,300	200	.023	.0091	.027	.191	1.29	11.6	17.9	28.8	DE	0219-
150	5,900	200	.021	.0083	.027	.162	1.36	12.2	19.5	31.1	DF	0220-

^{1/} The ripple current values shown are representative values based on capability of 2,000 hours life test at rated temperature but each individual value is not supported by test data. See [table II](#) for temperature correction factors.

^{2/} Complete dash number will include an additional letter symbol to indicate FR level (i.e, 0001M or 0026R).

REQUIREMENTS:

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

Case:

Type: Tubular.

Material: Metal.

Terminals: See [figure 1](#).

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

Reverse voltage: 1.5 volts maximum.

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

Cap. tolerance: -10, +75 percent.

FR level: M, P, R, and S.

Operating temperature range: -55°C to +105°C.

Burn-in: In accordance with [MIL-PRF-39018](#).

DC leakage (DCL), see [table I](#).

Equivalent series resistance (ESR): See [table I](#).

Low temperature exposure:

DCL: See [table I](#).

Cap.: See [table I](#).

ESR: See [table I](#).

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

Torque: 8 inch-pounds for terminal style A; 15 inch-pounds for terminal style B.

Stability at reduced and high temperatures:

Step 1 (at +25°C):

DCL: See [table I](#).

Cap.: See [table I](#).

ESR: See [table I](#).

Step 2 (at -55°C):

Impedance: See [table I](#).

Cap.: Within the following percentages of the step 1 value:

5 V dc: ± 35 percent.

10 to 25 V dc inclusive: ± 25 percent.

30 to 100 V dc inclusive: ± 20 percent.

150 V dc: ± 30 percent.

Step 3 (at +25°C):

DCL: See [table I](#).

Cap.: Within ± 5 percent of step 1 value.

ESR: See [table I](#).

Step 4 (at +105°C):

DCL: See [table I](#).

Cap.: Within ± 30 percent of step 1 value.

ESR: See [table I](#).

Step 5 (at +25°C):

DCL: See [table I](#).

Cap.: Within ± 5 percent of step 1 value.

ESR: See [table I](#).

| Life: [MIL-STD-202-108](#).

For qualification: Condition F (2,000 hours) at +85°C.

DCL: See [table I](#).

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

ESR: Not more than 130 percent of initial requirement.

10,000 hour (extended life and group C) at +85°C.

DCL: See [table I](#).

Cap.: Within ± 15 percent of initial measurement.

ESR: Not more than 250 percent of initial requirement.

Case insulation: In accordance with [MIL-PRF-39018](#).

| Shock (specified pulse): [MIL-STD-202-213](#), condition H.

Vibration: Low frequency: In accordance with [MIL-PRF-39018](#).

Thermal shock and immersion:

| Thermal shock: [MIL-STD-202-107](#), condition A, except in step 3, units shall be tested at applicable high temperature.

| Immersion: [MIL-STD-202-104](#), condition B (2 cycles, 30 minutes).

DCL: See [table I](#).

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

ESR: See [table I](#).

Case insulation: Shall meet initial requirements.

Surge voltage:

DCL: See [table I](#).

Cap.: Within ± 6 percent of initial measured value.

ESR: See [table I](#).

Vent: In accordance with [MIL-PRF-39018](#).

Moisture resistance: [MIL-STD-202-106](#).

DCL: See [table I](#).

Cap.: Within ± 6 percent of initial measured value.

ESR: See [table I](#).

Case insulation: Shall meet initial requirements.

High temperature exposure (500 hours at $+105^{\circ}\text{C}$):

DCL: Not more than 200 percent of initial requirement.

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

ESR: Not more than 115 percent of initial requirement.

AC verification:

DCL: See [table I](#).

Cap.: Within ± 15 percent of initial measured value.

ESR: 200 percent of initial requirement.

Reverse voltage aging: In accordance with [MIL-PRF-39018](#).

Marking: In accordance with [MIL-PRF-39018](#).

Part or Identifying Number (PIN): M39018/10-(dash number from [table I](#)).

APPLICATION NOTES:

1. Ripple current: Capacitors shall withstand the rms ripple currents at 20 kHz as given in [table I](#).

The maximum ripple current shall apply with the following qualifications:

The sum of the dc voltage plus the peak value of ac voltage must not exceed the working voltage rating of the unit, or the ac shall never exceed the maximum dc.

The values of dc voltage and ac peak voltage must be such that not more than a 1.5 volt voltage reversal is experienced.

Under no conditions of temperature or frequency, regardless of the multipliers given below, should the rms ripple current be in excess of 30 amperes on terminal "A" capacitors, or in excess of 50 amperes on terminal "B" capacitors.

TABLE II. Factors for determining ripple currents at various temperatures.

Temperature (in degrees Celsius)			
$\leq +45^{\circ}$	$+65^{\circ}$	$+85^{\circ}$	$+105^{\circ}$
1.7	1.4	1.0	0.3

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2. Insulation and grounding: These capacitors have an inherently low indeterminate insulation resistance between the cathode terminal and the container. The container should be considered at the same potential as the cathode terminal with respect to ground. Where a potential difference exists between the cathode terminal and the chassis or other metallic mounting surfaces which are usually ground, the capacitors should be mounted in such a manner as to insulate the container from such mounting surfaces.
3. Shelf life: Shelf life and reforming procedures should be in accordance with [MIL-HDBK-1131](#).

It is recommended that capacitors stored more than 3 years be checked at room temperature for leakage current in accordance with the applicable requirement before use.

4. Torque: The minimum and maximum torque applied to the steel screw /aluminum insert shall be as follows:

	<u>Min</u>	<u>Max</u>
With a minimum of 3 engaged threads -----	12 inch/lbs	18 inch/lbs
With a minimum of 6 engaged threads -----	20 inch/lbs	25 inch/lbs

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.

Referenced documents. In addition to [MIL-PRF-39018](#), this document references the following:

MIL-HDBK-1131	MIL-STD-202-108
MIL-STD-202-104	MIL-STD-202-211
MIL-STD-202-106	MIL-STD-202-213
MIL-STD-202-107	

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

Preparing activity:
 DLA - CC
 (Project 5910-2019-039)

Review activities:
 Navy - AS, MC, OS, SH
 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 the ASSIST Online database at <https://assist.dla.mil/>.