

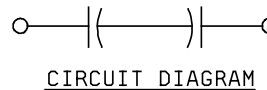
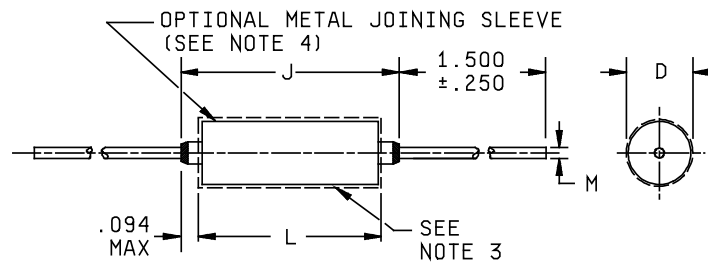
PERFORMANCE SPECIFICATION SHEET

CAPACITOR, FIXED, ELECTROLYTIC (SOLID ELECTROLYTE), TANTALUM,
(NONPOLARIZED, SINTERED SLUG), ESTABLISHED RELIABILITY,
STYLE CSR91

FAILURE RATE LEVELS "M", "P", AND "R" ARE
INACTIVE FOR NEW DESIGN AFTER 2 FEBRUARY 1984.
FAILURE RATE LEVEL "S" IS INACTIVE
FOR NEW DESIGN AFTER 15 AUGUST 1984.

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-39003](#).



Case size	Dimensions			
	L ± .031	D +.010 -.015	M ± .002	J Max
W	.575	.161	.020	.750
X	.955	.207	.020	1.130
Y	1.350	.314	.025	1.525
Z	1.550	.376	.025	1.725

Inches	mm	Inches	mm	Inches	mm
.002	0.05	.161	4.09	.955	24.26
.010	0.25	.207	5.26	1.130	28.70
.015	0.38	.250	6.35	1.350	34.29
.020	0.51	.314	7.98	1.500	38.10
.025	0.64	.376	9.55	1.525	38.74
.031	0.79	.575	14.61	1.550	39.37
.094	2.39	.750	19.05	1.725	43.82

NOTES:

- Dimensions are in inches.
- Metric equivalents are in millimeters and are given for general information only.
- The case insulation shall extend .015 inch (.38 mm) minimum beyond each end. However, when a shrink-fitted insulation is used, it shall lap over the ends of the capacitor body.
- Two style CSR13 capacitors are placed "back-to-back" (negative terminal-to-negative-terminal).
- Lead length may be a minimum of 1-inch long for use in tape and reel automatic insertion equipment, when specified.

FIGURE 1. Dimensions and configurations.



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TABLE I. Style CSR91 characteristics and dash numbers.

Rated voltage 1/ Volts	Capacitance (nom.) μF	Capacitance tolerance %	DC leakage (max) μA	Dissipation factor (max) %	Case size	Dash number M39003/04- Failure rate level (%/1,000 hours)							
						M (1.0)	P (0.1)	R (0.01)	S (0.001)	G (1.0)	B (0.1)	C (0.01)	D (0.001)
6	2.8	10	.3	4	W	0221	0441	0661	0881	6001	3001	4001	5001
6	3.4	10	.3	6	W	0222	0442	0662	0882	6002	3002	4002	5002
6	3.4	20	.3	6	W	0223	0443	0663	0883	6003	3003	4003	5003
6	23.0	10	1.5	6	X	0224	0444	0664	0884	6004	3004	4004	5004
6	23.0	20	1.5	6	X	0225	0445	0665	0885	6005	3005	4005	5005
6	28.0	10	1.5	6	X	0226	0446	0666	0886	6006	3006	4006	5006
6	75.0	10	4.5	8	Y	0227	0447	0667	0887	6007	3007	4007	5007
6	75.0	20	4.5	8	Y	0228	0448	0668	0888	6008	3008	4008	5008
6	90.0	10	5.5	8	Y	0229	0449	0669	0889	6009	3009	4009	5009
6	130.0	10	6.5	8	Z	0231	0451	0671	0891	6010	3010	4010	5010
6	160.0	10	7.5	8	Z	0233	0453	0673	0893	6011	3011	4011	5011
6	160.0	20	7.5	8	Z	0234	0454	0674	0894	6012	3012	4012	5012
10	1.9	10	.3	4	W	0235	0455	0675	0895	6013	3013	4013	5013
10	2.3	10	.4	4	W	0236	0456	0676	0896	6014	3014	4014	5014
10	2.3	20	.4	4	W	0237	0457	0677	0897	6015	3015	4015	5015
10	13.0	10	2.0	6	X	0238	0458	0678	0898	6016	3016	4016	5016
10	16.0	10	2.5	6	X	0239	0459	0679	0899	6017	3017	4017	5017
10	16.0	20	2.5	6	X	0240	0460	0680	0900	6018	3018	4018	5018
10	19.0	10	2.5	6	X	0241	0461	0681	0901	6019	3019	4019	5019
10	41.0	10	4.0	6	Y	0242	0462	0682	0902	6020	3020	4020	5020
10	50.0	10	5.0	8	Y	0243	0463	0683	0903	6021	3021	4021	5021
10	50.0	20	5.0	8	Y	0244	0464	0684	0904	6022	3022	4022	5022
10	60.0	10	6.0	8	Y	0245	0465	0685	0905	6023	3023	4023	5023
10	90.0	10	9.0	8	Z	0247	0467	0687	0907	6024	3024	4024	5024
10	110.0	10	10.0	8	Z	0248	0468	0688	0908	6025	3025	4025	5025
10	110.0	20	10.0	8	Z	0249	0469	0689	0909	6026	3026	4026	5026
15	1.3	10	.3	4	W	0250	0470	0690	0910	6027	3027	4027	5027
15	1.6	10	.4	4	W	0251	0471	0691	0911	6028	3028	4028	5028
15	1.6	20	.4	4	W	0252	0472	0692	0912	6029	3029	4029	5029
15	9.0	10	2.0	6	X	0253	0473	0693	0913	6030	3030	4030	5030
15	11.0	10	2.0	6	X	0254	0474	0694	0914	6031	3031	4031	5031
15	11.0	20	2.0	6	X	0255	0475	0695	0915	6032	3032	4032	5032
15	28.0	10	4.0	6	Y	0256	0476	0696	0916	6033	3033	4033	5033
15	34.0	10	5.0	6	Y	0257	0477	0697	0917	6034	3034	4034	5034
15	34.0	20	5.0	6	Y	0258	0478	0698	0918	6035	3035	4035	5035
15	60.0	10	9.0	8	Z	0259	0479	0699	0919	6036	3036	4036	5036
15	75.0	10	10.0	8	Z	0260	0480	0700	0920	6037	3037	4037	5037
15	75.0	20	10.0	8	Z	0261	0481	0701	0921	6038	3038	4038	5038
20	.6	10	.3	4	W	0262	0482	0702	0922	6039	3039	4039	5039
20	.75	10	.3	4	W	0263	0483	0703	0923	6040	3040	4040	5040
20	.75	20	.3	4	W	0264	0484	0704	0924	6041	3041	4041	5041
20	.9	10	.3	4	W	0265	0485	0705	0925	6042	3042	4042	5042
20	1.1	10	.4	4	W	0266	0486	0706	0926	6043	3043	4043	5043
20	1.1	20	.4	4	W	0267	0487	0707	0927	6044	3044	4044	5044
20	4.1	10	1.0	6	X	0268	0488	0708	0928	6045	3045	4045	5045
20	5.0	10	1.5	6	X	0269	0489	0709	0929	6046	3046	4046	5046
20	5.0	20	1.5	6	X	0270	0490	0710	0930	6047	3047	4047	5047
20	6.0	10	1.8	6	X	0271	0491	0711	0931	6048	3048	4048	5048
20	7.5	10	2.0	6	X	0272	0492	0712	0932	6049	3049	4049	5049

See footnote at end of table.

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TABLE I. Style CSR91 characteristics and dash numbers - Continued.

Rated voltage 1/ Volts	Capacitance (nom.) μF	Capacitance tolerance %	DC leakage (max) μA	Dissipation factor (max) %	Case size	Dash number M39003/04- Failure rate level (%/1,000 hours)							
						M (1.0)	P (0.1)	R (0.01)	S (0.001)	G (1.0)	B (0.1)	C (0.01)	D (0.001)
20	7.5	20	2.0	6	X	0273	0493	0713	0933	6050	3050	4050	5050
20	13	10	2.5	6	Y	0274	0494	0714	0934	6051	3051	4051	5051
20	16	10	3.5	6	Y	0275	0495	0715	0935	6052	3052	4052	5052
20	16	20	3.5	6	Y	0276	0496	0716	0936	6053	3053	4053	5053
20	19	10	4.0	6	Y	0277	0497	0717	0937	6054	3054	4054	5054
20	23	10	4.5	6	Y	0278	0498	0718	0938	6055	3055	4055	5055
20	23	20	4.5	6	Y	0279	0499	0719	0939	6056	3056	4056	5056
20	28	10	5.5	6	Z	0280	0500	0720	0940	6057	3057	4057	5057
20	34	10	7.0	6	Z	0281	0501	0721	0941	6058	3058	4058	5058
20	34	20	7.0	6	Z	0282	0502	0722	0942	6059	3059	4059	5059
20	41	10	8.0	6	Z	0283	0503	0723	0943	6060	3060	4060	5060
20	50	10	10.0	6	Z	0284	0504	0724	0944	6061	3061	4061	5061
20	50	20	10.0	6	Z	0285	0505	0725	0945	6062	3062	4062	5062
35	2.8	10	1.3	4	X	0289	0509	0729	0949	6063	3063	4063	5063
35	3.4	10	1.5	6	X	0290	0510	0730	0950	6064	3064	4064	5064
35	3.4	20	1.5	6	X	0291	0511	0731	0951	6065	3065	4065	5065
35	11.0	10	4.0	6	Y	0292	0512	0732	0952	6066	3066	4066	5066
35	11.0	20	4.0	6	Y	0293	0513	0733	0953	6067	3067	4067	5067
35	13.0	10	4.5	6	Z	0294	0514	0734	0954	6068	3068	4068	5068
35	16.0	10	5.5	6	Z	0295	0515	0735	0955	6069	3069	4069	5069
35	16.0	20	5.5	6	Z	0296	0516	0736	0956	6070	3070	4070	5070
35	19.0	10	7.0	6	Z	0297	0517	0737	0957	6071	3071	4071	5071
35	23.0	10	8.0	6	Z	0298	0518	0738	0958	6072	3072	4072	5072
35	23.0	20	8.0	6	Z	0299	0519	0739	0959	6073	3073	4073	5073
50	.0023	10	.3	2	W	1171	1241	1311	1381	6074	3074	4074	5074
50	.0023	20	.3	2	W	1172	1242	1312	1382	6075	3075	4075	5075
50	.0028	10	.3	2	W	1173	1243	1313	1383	6076	3076	4076	5076
50	.0034	10	.3	2	W	1174	1244	1314	1384	6077	3077	4077	5077
50	.0034	20	.3	2	W	1175	1245	1315	1385	6078	3078	4078	5078
50	.0041	10	.3	2	W	1176	1246	1316	1386	6079	3079	4079	5079
50	.005	10	.3	2	W	1177	1247	1317	1387	6080	3080	4080	5080
50	.005	20	.3	2	W	1178	1248	1318	1388	6081	3081	4081	5081
50	.006	10	.3	2	W	1179	1249	1319	1389	6082	3082	4082	5082
50	.0075	10	.3	2	W	1180	1250	1320	1390	6083	3083	4083	5083
50	.0075	20	.3	2	W	1181	1251	1321	1391	6084	3084	4084	5084
50	.009	10	.3	2	W	1182	1252	1322	1392	6085	3085	4085	5085
50	.011	10	.3	2	W	1183	1253	1323	1393	6086	3086	4086	5086
50	.011	20	.3	2	W	1184	1254	1324	1394	6087	3087	4087	5087
50	.013	10	.3	2	W	1185	1255	1325	1395	6088	3088	4088	5088
50	.016	10	.3	2	W	1186	1256	1326	1396	6089	3089	4089	5089
50	.016	20	.3	2	W	1187	1257	1327	1397	6090	3090	4090	5090
50	.019	10	.3	2	W	1188	1258	1328	1398	6091	3091	4091	5091
50	.023	10	.3	2	W	1189	1259	1329	1399	6092	3092	4092	5092
50	.023	20	.3	2	W	1190	1260	1330	1400	6093	3093	4093	5093
50	.028	10	.3	2	W	1191	1261	1331	1401	6094	3094	4094	5094
50	.034	10	.3	2	W	1192	1262	1332	1402	6095	3095	4095	5095
50	.034	20	.3	2	W	1193	1263	1333	1403	6096	3096	4096	5096
50	.041	10	.3	2	W	1194	1264	1334	1404	6097	3097	4097	5097
50	.05	10	.3	2	W	1195	1265	1335	1405	6098	3098	4098	5098

See footnote at end of table.

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TABLE I. Style CSR91 characteristics and dash numbers - Continued.

Rated voltage 1/	Capacitance (nom.)	Capacitance tolerance	DC leakage (max)	Dissipation factor (max)	Case size	Dash number M39003/04- Failure rate level (%/1,000 hours)							
						M (1.0)	P (0.1)	R (0.01)	S (0.001)	G (1.0)	B (0.1)	C (0.01)	D (0.001)
50	.05	20	.3	2	W	1196	1266	1336	1406	6099	3099	4099	5099
50	.06	10	.3	2	W	1197	1267	1337	1407	6100	3100	4100	5100
50	.075	10	.3	2	W	1198	1268	1338	1408	6101	3101	4101	5101
50	.075	20	.3	2	W	1199	1269	1339	1409	6102	3102	4102	5102
50	.09	10	.3	2	W	1200	1270	1340	1410	6103	3103	4103	5103
50	.11	10	.3	2	W	1201	1271	1341	1411	6104	3104	4104	5104
50	.11	20	.3	2	W	1202	1272	1342	1412	6105	3105	4105	5105
50	.13	10	.3	2	W	1203	1273	1343	1413	6106	3106	4106	5106
50	.16	10	.3	2	W	1204	1274	1344	1414	6107	3107	4107	5107
50	.16	20	.3	2	W	1205	1275	1345	1415	6108	3108	4108	5108
50	.19	10	.3	2	W	1206	1276	1346	1416	6109	3109	4109	5109
50	.23	10	.3	2	W	1207	1277	1347	1417	6110	3110	4110	5110
50	.23	20	.3	2	W	1208	1278	1348	1418	6111	3111	4111	5111
50	.28	10	.3	2	W	1209	1279	1349	1419	6112	3112	4112	5112
50	.34	10	.3	2	W	1210	1280	1350	1420	6113	3113	4113	5113
50	.34	20	.3	2	W	1211	1281	1351	1421	6114	3114	4114	5114
50	.41	10	.3	2	W	0300	0520	0740	0960	6115	3115	4115	5115
50	.50	10	.4	2	W	0301	0521	0741	0961	6116	3116	4116	5116
50	.50	20	.4	2	W	0302	0522	0742	0962	6117	3117	4117	5117
50	.60	10	.4	4	X	1212	1282	1352	1422	6118	3118	4118	5118
50	.75	10	.6	4	X	2001	2101	2201	2301	6119	3119	4119	5119
50	.75	20	.6	4	X	2002	2102	2202	2302	6120	3120	4120	5120
50	.90	10	.7	4	X	1215	1285	1355	1425	6121	3121	4121	5121
50	1.1	10	.8	4	X	1216	1286	1356	1426	6122	3122	4122	5122
50	1.1	20	.8	4	X	1217	1287	1357	1427	6123	3123	4123	5123
50	1.3	10	1.0	4	X	1218	1288	1358	1428	6124	3124	4124	5124
50	1.6	10	1.2	4	X	1219	1289	1359	1429	6125	3125	4125	5125
50	1.6	20	1.2	4	X	1220	1290	1360	1430	6126	3126	4126	5126
50	1.9	10	1.5	4	X	1221	1291	1361	1431	6127	3127	4127	5127
50	2.3	10	1.7	4	X	1222	1292	1362	1432	6128	3128	4128	5128
50	2.3	20	1.7	4	X	1223	1293	1363	1433	6129	3129	4129	5129
50	2.8	10	2.2	4	Y	1224	1294	1364	1434	6130	3130	4130	5130
50	3.4	10	2.2	6	Y	1225	1295	1365	1435	6131	3131	4131	5131
50	3.4	20	2.2	6	Y	1226	1296	1366	1436	6132	3132	4132	5132
50	4.1	10	2.5	6	Y	1227	1297	1367	1437	6133	3133	4133	5133
50	5.0	10	2.5	6	Y	1228	1298	1368	1438	6134	3134	4134	5134
50	5.0	20	2.5	6	Y	1229	1299	1369	1439	6135	3135	4135	5135
50	6.0	10	3.0	6	Y	0303	0523	0743	0963	6136	3136	4136	5136
50	7.5	10	4.0	6	Y	0304	0524	0744	0964	6137	3137	4137	5137
50	7.5	20	4.0	6	Y	0305	0525	0745	0965	6138	3138	4138	5138
50	9.0	10	4.5	6	Y	0306	0526	0746	0966	6139	3139	4139	5139
50	11.0	10	5.5	6	Z	0307	0527	0747	0967	6140	3140	4140	5140
50	11.0	20	5.5	6	Z	0308	0528	0748	0968	6141	3141	4141	5141
75	.34	10	.3	2	W	0309	0529	0749	0969	6142	3142	4142	5142
75	.34	20	.3	2	W	0310	0530	0750	0970	6143	3143	4143	5143
75	.41	10	.3	2	X	2008	2108	2208	2308	6144	3144	4144	5144
75	.50	10	.4	2	X	2009	2109	2209	2309	6145	3145	4145	5145
75	.50	20	.4	2	X	2010	2110	2210	2310	6146	3146	4146	5146
75	.60	10	.4	4	X	2011	2111	2211	2311	6147	3147	4147	5147

See footnote at end of table.

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TABLE I. Style CSR91 characteristics and dash numbers - Continued.

Rated voltage ^{1/}	Capacitance (nom.)	Capacitance tolerance	DC leakage (max)	Dissipation factor (max)	Case size	Dash number M39003/04- Failure rate level (%/1,000 hours)							
						M (1.0)	P (0.1)	R (0.01)	S (0.001)	G (1.0)	B (0.1)	C (0.01)	D (0.001)
75	.75	10	.6	4	X	2012	2112	2212	2312	6148	3148	4148	5148
75	.75	20	.6	4	X	2013	2113	2213	2313	6149	3149	4149	5149
75	.90	10	.7	4	X	2014	2114	2214	2314	6150	3150	4150	5150
75	1.1	10	.8	4	X	2015	2115	2215	2315	6151	3151	4151	5151
75	1.1	20	.8	4	X	2016	2116	2216	2316	6152	3152	4152	5152
75	1.3	10	1.0	4	X	2017	2117	2217	2317	6153	3153	4153	5153
75	1.6	10	1.2	4	X	0311	0531	0751	0971	6154	3154	4154	5154
75	1.6	20	1.2	4	X	0312	0532	0752	0972	6155	3155	4155	5155
75	1.9	10	1.5	4	X	0313	0533	0753	0973	6156	3156	4156	5156
75	2.3	10	3.0	4	Y	2003	2103	2203	2303	6157	3157	4157	5157
75	2.3	20	3.0	4	Y	2004	2104	2204	2304	6158	3158	4158	5158
75	2.8	10	3.0	6	Y	2005	2105	2205	2305	6159	3159	4159	5159
75	3.4	10	5.0	6	Y	2006	2106	2206	2306	6160	3160	4160	5160
75	3.4	20	5.0	6	Y	2007	2107	2207	2307	6161	3161	4161	5161
75	4.1	10	5.0	6	Y	0314	0534	0754	0974	6162	3162	4162	5162
75	5.0	10	5.0	6	Y	0315	0535	0755	0975	6163	3163	4163	5163
75	5.0	20	5.0	6	Y	0316	0536	0756	0976	6164	3164	4164	5164
75	6.0	10	5.0	6	Z	0317	0537	0757	0977	6165	3165	4165	5165
75	7.5	10	7.0	6	Z	0318	0538	0758	0978	6166	3166	4166	5166
75	7.5	20	7.0	6	Z	0319	0539	0759	0979	6167	3167	4167	5167
100	.0023	10	.3	2	W	0320	0540	0760	0980	6168	3168	4168	5168
100	.0023	20	.3	2	W	0321	0541	0761	0981	6169	3169	4169	5169
100	.0028	10	.3	2	W	0322	0542	0762	0982	6170	3170	4170	5170
100	.0034	10	.3	2	W	0323	0543	0763	0983	6171	3171	4171	5171
100	.0034	20	.3	2	W	0324	0544	0764	0984	6172	3172	4172	5172
100	.0041	10	.3	2	W	0325	0545	0765	0985	6173	3173	4173	5173
100	.005	10	.3	2	W	0326	0546	0766	0986	6174	3174	4174	5174
100	.005	20	.3	2	W	0327	0547	0767	0987	6175	3175	4175	5175
100	.006	10	.3	2	W	0328	0548	0768	0988	6176	3176	4176	5176
100	.0075	10	.3	2	W	0329	0549	0769	0989	6177	3177	4177	5177
100	.0075	20	.3	2	W	0330	0550	0770	0990	6178	3178	4178	5178
100	.009	10	.3	2	W	0331	0551	0771	0991	6179	3179	4179	5179
100	.011	10	.3	2	W	0332	0552	0772	0992	6180	3180	4180	5180
100	.011	20	.3	2	W	0333	0553	0773	0993	6181	3181	4181	5181
100	.013	10	.3	2	W	0334	0554	0774	0994	6182	3182	4182	5182
100	.016	10	.3	2	W	0335	0555	0775	0995	6183	3183	4183	5183
100	.016	20	.3	2	W	0336	0556	0776	0996	6184	3184	4184	5184
100	.019	10	.3	2	W	0337	0557	0777	0997	6185	3185	4185	5185
100	.023	10	.3	2	W	0338	0558	0778	0998	6186	3186	4186	5186
100	.023	20	.3	2	W	0339	0559	0779	0999	6187	3187	4187	5187
100	.028	10	.3	2	W	0340	0560	0780	1000	6188	3188	4188	5188
100	.034	10	.3	2	W	0341	0561	0781	1001	6189	3189	4189	5189
100	.034	20	.3	2	W	0342	0562	0782	1002	6190	3190	4190	5190
100	.041	10	.3	2	W	0343	0563	0783	1003	6191	3191	4191	5191
100	.05	10	.3	2	W	0344	0564	0784	1004	6192	3192	4192	5192
100	.05	20	.3	2	W	0345	0565	0785	1005	6193	3193	4193	5193
100	.06	10	.3	2	W	0346	0566	0786	1006	6194	3194	4194	5194
100	.075	10	.3	2	W	0347	0567	0787	1007	6195	3195	4195	5195
100	.075	20	.3	2	W	0348	0568	0788	1008	6196	3196	4196	5196

See footnote at end of table.

TABLE I. Style CSR91 characteristics and dash numbers - Continued.

Rated voltage ^{1/}	Capacitance (nom.)	Capacitance tolerance	DC leakage (max)	Dissipation factor (max)	Case size	Dash number M39003/04-Failure rate level (%/1,000 hours)							
						M (1.0)	P (0.1)	R (0.01)	S (0.001)	G (1.0)	B (0.1)	C (0.01)	D (0.001)
100	.09	10	.3	2	W	0349	0569	0789	1009	6197	3197	4197	5197
100	.11	10	.3	2	W	0350	0570	0790	1010	6198	3198	4198	5198
100	.11	20	.3	2	W	0351	0571	0791	1011	6199	3199	4199	5199
100	.13	10	.3	2	W	0352	0572	0792	1012	6200	3200	4200	5200
100	.16	10	.3	2	W	0353	0573	0793	1013	6201	3201	4201	5201
100	.16	20	.3	2	W	0354	0574	0794	1014	6202	3202	4202	5202
100	.19	10	.3	2	W	0355	0575	0795	1015	6203	3203	4203	5203
100	.23	10	.3	2	W	0356	0576	0796	1016	6204	3204	4204	5204
100	.23	20	.3	2	W	0357	0577	0797	1017	6205	3205	4205	5205
100	.28	10	.3	2	W	0358	0578	0798	1018	6206	3206	4206	5206
100	.34	10	.3	2	X	0359	0579	0799	1019	6207	3207	4207	5207
100	.34	20	.3	2	X	0360	0580	0800	1020	6208	3208	4208	5208
100	.41	10	.4	2	X	0361	0581	0801	1021	6209	3209	4209	5209
100	.50	10	.5	2	X	0362	0582	0802	1022	6210	3210	4210	5210
100	.50	20	.5	2	X	0363	0583	0803	1023	6211	3211	4211	5211
100	.60	10	.5	4	X	0364	0584	0804	1024	6212	3212	4212	5212
100	.75	10	.7	4	X	0365	0585	0805	1025	6213	3213	4213	5213
100	.75	20	.7	4	X	0366	0586	0806	1026	6214	3214	4214	5214
100	.90	10	.7	4	X	0367	0587	0807	1027	6215	3215	4215	5215
100	1.1	10	.9	4	X	0368	0588	0808	1028	6216	3216	4216	5216
100	1.1	20	.9	4	X	0369	0589	0809	1029	6217	3217	4217	5217
100	1.3	10	1.1	4	X	0370	0590	0810	1030	6218	3218	4218	5218

^{1/} Nonpolarized.

REQUIREMENTS:

Style CSR91 shall consist of two style CSR13 capacitors, from the same production lot, which have been subjected to all group A testing for style CSR13 for exponential or Weibull distribution, as applicable. A Weibull graded CSR91 shall consist of Weibull graded CSR13s and an exponential graded CSR91 shall consist of either exponential or Weibull graded CSR13s. The failure rate level of the CSR13s shall be the same or lower than the failure rate level of the CSR91.

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

Case type: Tubular, insulated.

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

Capacitance tolerance: ± 10 or ± 20 percent as shown in [table I](#).

Failure rate level: See [table I](#).

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

Capacitance: In accordance with [MIL-PRF-39003](#), except the maximum voltage applied during measurement shall be 2.2 volts rms at 120 Hz at 25°C. If ac voltage is less than 0.5 volts, no dc bias is required.

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

Marking: In accordance with [MIL-PRF-39003](#).

MIL-PRF-39003/4H

Part or Identifying Number (PIN): M39003/04-(dash number from [table I](#)).

Substitutability data:

Substitutability for failure rate levels shall be as follows: In accordance with [MIL-PRF-39003](#).

Substitutability for capacitance tolerance shall be as follows:

<u>Capacitance tolerance</u>	<u>Will replace capacitance tolerance</u>
10 percent	20 percent

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where modifications from this revision 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.

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

Preparing activity:
DLA - CC

(Project 5910-2022-016)

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/>.