

# MILITARY APPROVED FILM CAPACITORS



**Military Specification Qualification Approval and Replacement Table. . . . . I-2**

## **MIL STYLE CAPACITORS**

Military style capacitors are manufactured by Dearborn Electronics, Inc. to meet all the requirements of the pertinent military specifications. All capacitors ordered by the military part number will be manufactured, tested and marked in accordance with the military specifications. The military specification shall be used for verification for specific operational parameters and other characteristics.

Copies of the Mil Specs are available @ [www.dscc.dla.mil/Programs/MilSpec/DocSearch.asp](http://www.dscc.dla.mil/Programs/MilSpec/DocSearch.asp)

## **ESTABLISHED RELIABILITY CAPACITORS.**

The reliability of these capacitors is established by continuous life testing performed at maximum rated voltage and maximum rated temperature. The maximum failure rate at 90% confidence level is expressed as percent failures for each 1000 hours of test. Dearborn has attained a failure rate level of 0.001% per 1000 hrs on certain of these specifications. This is **the lowest failure rate available for these specifications** and the true failure rates **are much lower than stated**. The failure rate levels attained for each specification are listed on the following page. Failure rate levels are 1%/1000 hrs (M), 0.1%/1000 hrs (P), 0.01%/1000 hrs (R), and 0.001%/1000 hrs (S).

**MILITARY SPECIFICATION QUALIFICATIONS**

Military Specifications	Style	Characteristic/Dielectric	Voltage Range	Dearborn Type	Remarks	Failure Rate Level	Active/Inactive
C-25/4	CP53, 54, 55	E, F, K, Paper &/or Polyester-Foil	100-1000	154P	-	Non ER	A
PRF-11693/7	CZ23/CZ24	E, K, Paper/Foil	100-600	103P	-	Non ER	A
PRF-11693/7	CZR23/CZR24	E, K, Paper/Foil	100-600	103P	-	M	A
C-18312/2	CH09	R, N, Paper/Polyester Met.	50-600	218P, 118P	See 39022/1	Non ER	I
C-18312/3	CH12	N, Paper/Polyester Met.	200-600	118P	See 39022/8	Non ER	I
PRF-19978/1	CQ08, 9,12, 13	K, Paper/Polyester-Foil	200-1000	131P	See 19978/9, 10, 11	Non ER	I
PRF-19978/1	CQ08,9,12,13	M, Polyester-Foil	30-1000	127P	See 19978/13, 14, 15	Non ER	I
PRF-19978/2	CQ20	K, Paper/Polyester-Foil	1Kv-15Kv	205P	-	Non ER	A
PRF-19978/3	CQ72	E, F, G, Paper/Polyester-Foil K	400-12.5Kv	263P	-	Non ER	A I
PRF-19978/8	CQR07	Q, Polycarbonate-Foil	50-600	237P	See 19978/22	M, P, R	A
PRF-19978/9	CQR09	K, Paper/Polyester-Foil	200-1000	131P	-	M, P, R	A
PRF-19978/10	CQR12	K, Paper/Polyester-Foil	200-1000	131P	-	M, P, R	A
PRF-19978/11	CQR13	K, Paper/Polyester-Foil	200-1000	131P	-	M, P, R	A
PRF-19978/12	CQR19	K, Paper/Polyester-Foil	200-600	131P	See 19978/9	M, P, R	I
PRF-19978/13	CQR29	M, Polyester/Foil	30-1000	127P	-	M, P, R	A
PRF-19978/14	CQR32	M, Polyester/Foil	30-1000	127P	-	M, P, R	A
PRF-19978/15	CQR33	M, Polyester/Foil	30-1000	127P	-	M, P, R	A
PRF-19978/16	CQR39	K, Paper/Polyester-Foil	100-1000	131P	See19978/9	M, P, R	I
PRF-19978/17	CQR42	K, Paper/Polyester-Foil	100-1000	131P	See19978/10	M, P, R	I
PRF-19978/18	CQR43	K, Paper/Polyester-Foil	100-1000	131P	See19978/11	M, P, R	I
PRF-19978/19	CQ05	K, Paper/Polyester-Foil	100-1000	131P	See19978/9	M, P, R	I
PRF-19978/20	CQ10	K, Paper/Polyester-Foil	100-1000	131P	See 19978/10	M, P, R	I
PRF-19978/21	CQ11	K, Paper/Polyester-Foil	100-600	131P	See19978/11	M, P, R	I
PRF-19978/22	CQR44	U, Polyphenylene sulfide-Foil	50-600	837P	Replaces/8	Pending	A
PRF-39022/1	CHR09	R, N, Met.	50-600	218P, 118P	-	M, P, R	A
PRF-39022/2	CHR19	N, Met. Paper & Polyester	200-600	118P	-	M, P, R	A
PRF-39022/7	CHR49	Met. Polycarbonate	80-400AC	259P	See 39022/12	M, P, R	A
PRF-39022/8	CHR12	R, N, Met. Paper &/or Polyester	50-600	218P, 118P	-	M, P, R	A
PRF-39022/10	CHR10	Met. Polycarbonate	30-600	LP9-620P	See 39022/13	M, P, R, S	A
PRF-39022/12	CHR26	Met. Polyphenylene sulfide	80-400AC	859P	Replaces/7	M, P, R, S	A
PRF-39022/13	CHR27	Met. Polyphenylene sulfide	50-600	820P	Replaces/10	M, P, R, S	A
PRF-55514/7	CFR09	R, Met. Polycarbonate	50-200	LP88-642P	-	M, P	A
PRF-55514/9	CFR13, 14	L, Met. Polypropylene	100-400	735P -	-	M, P	A
PRF-55514/10	CFR15	K, Polypropylene-Foil	200-800	710P	-	M, P	A
PRF-55514/13	CFR30	Met. Polyphenylene sulfide	50-200	846P	Replaces/7	M, P	A
PRF-83421/1	CHR01-CHR05 CRH06-CHR00	Met. Polycarbonate	30-400	LP9-621P	See 83421/6	M, P, R, S	A I
PRF-83421/2	CRH11, 12, 13	L, Met. Polypropylene	100-400	720P	-	M, P	A
PRF-83421/6	CRH31, 32, 33, 34, 35	Met. Polyphenylene sulfide	30-400	871P	Replaces/1	M, P, R, S	A