INCH-POUND
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SUPERSEDING
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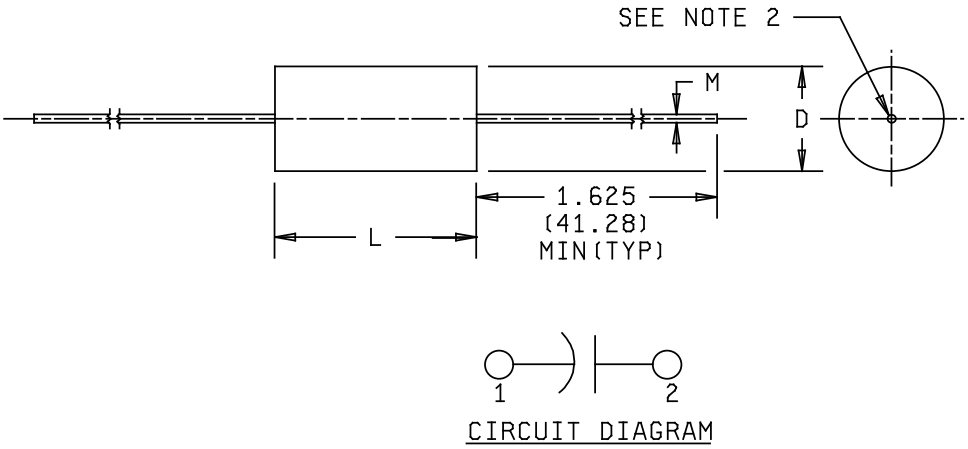
PERFORMANCE SPECIFICATION SHEET

CAPACITORS, FIXED, METALIZED PLASTIC DIELECTRIC, DC-AC, IN NONMETAL CASES, ESTABLISHED RELIABILITY, STYLE CFR30

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-55514.



NOTES:
1. Dimensions are in inches.
2. Leads shall be of solid wire and located on centerline within ± .062 inch (1.57 mm) but not less than .03 inch (0.8 mm) from edge of capacitor.
3. Millimeters are in parentheses.
4. Metric equivalents are given for general information only.
5. Lead length may be a minimum of 1 inch long for use in tape and reel packaging when specified in the ordering data.

FIGURE 1. Style CFR30 capacitors.

TABLE I. Capacitor characteristics.

50 VDC								
Part or Indentifying Number (PIN) 1/	Capacitance (nom) µF	Capacitance tolerance available	Dimensions (in inches)			AC ratings (for sinusoidal operation from -55°C to +105°C) 3/		
			D ± .050 (1.27)	L ± .050 (1.27)	M 2/	RMS current Amperes	RMS voltage - Volts 0-400 Hz	RMS voltage - Volts 4 kHz
CFR30AUA563--	.056	F,G,J,K	.170 (4.32)	.400 (10.16)	.020 (0.51)	.180	25.0	25.0
CFR30AUA683--	.068	F,G,J,K	.170 (4.32)	.400 (10.16)	.020 (0.51)	.220	25.0	25.0
CFR30AUA823--	.082	F,G,J,K	.190 (4.83)	.400 (10.16)	.020 (0.51)	.264	25.0	25.0
CFR30AUA104--	.10	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.364	25.0	25.0
CFR30AUA124--	.12	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.388	25.0	25.0
CFR30AUA154--	.15	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.488	25.0	25.0
CFR30AUA184--	.18	F,G,J,K	.260 (6.60)	.400 (10.16)	.025 (0.64)	.584	25.0	25.0
CFR30AUA224--	.22	F,G,J,K	.260 (6.60)	.400 (10.16)	.025 (0.64)	.712	25.0	25.0
CFR30AUA274--	.27	F,G,J,K	.230 (5.84)	.530 (13.46)	.025 (0.64)	.376	25.0	24.0
CFR30AUA334--	.33	F,G,J,K	.260 (6.60)	.530 (13.46)	.025 (0.64)	.460	25.0	22.0
CFR30AUA394--	.39	F,G,J,K	.260 (6.60)	.530 (13.46)	.025 (0.64)	.540	25.0	21.5
CFR30AUA474--	.47	F,G,J,K	.310 (7.87)	.530 (13.46)	.025 (0.64)	.652	25.0	20.0
CFR30AUA564--	.56	F,G,J,K	.310 (7.87)	.530 (13.46)	.025 (0.64)	.780	25.0	19.0
CFR30AUA684--	.68	F,G,J,K	.350 (8.89)	.530 (13.46)	.025 (0.64)	1.434	25.0	18.0
CFR30AUA824--	.82	F,G,J,K	.350 (8.89)	.530 (13.46)	.025 (0.64)	1.710	25.0	17.0
CFR30AUA105--	1.0	F,G,J,K	.310 (7.87)	.750 (19.05)	.025 (0.64)	.884	25.0	15.0
CFR30AUA125--	1.2	F,G,J,K	.310 (7.87)	.750 (19.05)	.025 (0.64)	1.060	25.0	14.5
CFR30AUA155--	1.5	F,G,J,K	.350 (8.89)	.750 (19.05)	.025 (0.64)	2.004	25.0	13.0
CFR30AUA185--	1.8	F,G,J,K	.400 (10.16)	.750 (19.05)	.025 (0.64)	2.388	25.0	12.0
CFR30AUA205--	2.0	F,G,J,K	.400 (10.16)	.750 (19.05)	.025 (0.64)	2.652	25.0	11.5
CFR30AUA225--	2.2	F,G,J,K	.400 (10.16)	.750 (19.05)	.025 (0.64)	2.484	25.0	11.0
CFR30AUA275--	2.7	F,G,J,K	.350 (8.89)	1.030 (26.16)	.025 (0.64)	2.076	25.0	10.5
CFR30AUA305--	3.0	F,G,J,K	.400 (10.16)	1.030 (26.16)	.025 (0.64)	2.305	25.0	10.0
CFR30AUA335--	3.3	F,G,J,K	.400 (10.16)	1.030 (26.16)	.025 (0.64)	2.550	25.0	9.5
CFR30AUA395--	3.9	F,G,J,K	.440 (11.18)	1.030 (26.16)	.032 (0.81)	2.994	25.0	8.5
CFR30AUA475--	4.7	F,G,J,K	.440 (11.18)	1.030 (26.16)	.032 (0.81)	3.264	25.0	8.0
CFR30AUA505--	5.0	F,G,J,K	.490 (12.45)	1.030 (26.16)	.032 (0.81)	3.834	25.0	7.5
CFR30AUA565--	5.6	F,G,J,K	.490 (12.45)	1.030 (26.16)	.032 (0.81)	4.000	25.0	7.0
CFR30AUA685--	6.8	F,G,J,K	.490 (12.45)	1.250 (31.75)	.032 (0.81)	4.000	25.0	6.5
CFR30AUA825--	8.2	F,G,J,K	.560 (14.22)	1.250 (31.75)	.032 (0.81)	4.000	25.0	5.5
CFR30AUA106--	10.0	F,G,J,K	.610 (15.49)	1.250 (31.75)	.032 (0.81)	4.000	25.0	5.0
CFR30AUA126--	12.0	F,G,J,K	.610 (15.49)	1.500 (38.10)	.032 (0.81)	4.000	25.0	4.5
CFR30AUA156--	15.0	F,G,J,K	.610 (15.49)	1.500 (38.10)	.032 (0.81)	4.000	25.0	4.0
CFR30AUA186--	18.0	F,G,J,K	.670 (17.02)	1.500 (38.10)	.032 (0.81)	4.000	25.0	3.5

See footnotes at end of table.

TABLE I. Capacitor characteristics - Continued.

75 VDC								
Part or Indentifying Number (PIN) 1/	Capacitance (nom) µF	Capacitance tolerance available	Dimensions (in inches)			AC ratings (for sinusoidal operation from -55°C to +105°C) 3/		
			D ± .050 (1.27)	L ± .050 (1.27)	M 2/	RMS current Amperes	RMS voltage - Volts 0-400 Hz	RMS voltage - Volts 4 kHz
CFR30AUG333--	.033	F,G,J,K	.170 (4.32)	.400 (10.16)	.020 (0.51)	.140	39.0	39.0
CFR30AUG393--	.039	F,G,J,K	.170 (4.32)	.400 (10.16)	.020 (0.51)	.168	39.0	39.0
CFR30AUG473--	.047	F,G,J,K	.190 (4.83)	.400 (10.16)	.020 (0.51)	.200	39.0	39.0
CFR30AUG563--	.056	F,G,J,K	.190 (4.83)	.400 (10.16)	.020 (0.51)	.240	39.0	39.0
CFR30AUG683--	.068	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.288	39.0	39.0
CFR30AUG823--	.082	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.384	39.0	39.0
CFR30AUG104--	.10	F,G,J,K	.260 (6.60)	.400 (10.16)	.025 (0.64)	.424	39.0	37.0
CFR30AUG124--	.12	F,G,J,K	.260 (6.60)	.400 (10.16)	.025 (0.64)	.512	39.0	35.0
CFR30AUG154--	.15	F,G,J,K	.230 (5.84)	.530 (13.46)	.025 (0.64)	.276	39.0	33.0
CFR30AUG184--	.18	F,G,J,K	.230 (5.84)	.530 (13.46)	.025 (0.64)	.328	39.0	31.0
CFR30AUG224--	.22	F,G,J,K	.260 (6.60)	.530 (13.46)	.025 (0.64)	.404	39.0	29.0
CFR30AUG274--	.27	F,G,J,K	.260 (6.60)	.530 (13.46)	.025 (0.64)	.496	39.0	27.0
CFR30AUG334--	.33	F,G,J,K	.310 (7.87)	.530 (13.46)	.025 (0.64)	.604	39.0	25.0
CFR30AUG394--	.39	F,G,J,K	.310 (7.87)	.530 (13.46)	.025 (0.64)	.716	39.0	24.0
CFR30AUG474--	.47	F,G,J,K	.350 (8.89)	.530 (13.46)	.025 (0.64)	1.290	39.0	22.5
CFR30AUG564--	.56	F,G,J,K	.310 (7.87)	.750 (19.05)	.025 (0.64)	.652	39.0	21.0
CFR30AUG684--	.68	F,G,J,K	.310 (7.87)	.750 (19.05)	.025 (0.64)	.792	39.0	19.0
CFR30AUG824--	.82	F,G,J,K	.350 (8.89)	.750 (19.05)	.025 (0.64)	1.212	39.0	17.5
CFR30AUG105--	1.0	F,G,J,K	.350 (8.89)	.750 (19.05)	.025 (0.64)	1.434	39.0	16.0
CFR30AUG125--	1.2	F,G,J,K	.400 (10.16)	.750 (19.05)	.025 (0.64)	1.770	39.0	15.0
CFR30AUG155--	1.5	F,G,J,K	.350 (8.89)	1.030 (26.16)	.025 (0.64)	1.374	39.0	14.0
CFR30AUG185--	1.8	F,G,J,K	.400 (10.16)	1.030 (26.16)	.025 (0.64)	1.818	39.0	13.0
CFR30AUG205--	2.0	F,G,J,K	.400 (10.16)	1.030 (26.16)	.025 (0.64)	1.830	39.0	12.5
CFR30AUG225--	2.2	F,G,J,K	.400 (10.16)	1.030 (26.16)	.025 (0.64)	2.010	39.0	12.0
CFR30AUG275--	2.7	F,G,J,K	.440 (11.18)	1.030 (26.16)	.032 (0.81)	2.466	39.0	11.5
CFR30AUG305--	3.0	F,G,J,K	.490 (12.45)	1.030 (26.16)	.032 (0.81)	2.742	39.0	11.0
CFR30AUG335--	3.3	F,G,J,K	.490 (12.45)	1.030 (26.16)	.032 (0.81)	3.018	39.0	10.5
CFR30AUG395--	3.9	F,G,J,K	.560 (14.22)	1.030 (26.16)	.032 (0.81)	3.942	39.0	10.0
CFR30AUG475--	4.7	F,G,J,K	.560 (14.22)	1.030 (26.16)	.032 (0.81)	4.000	39.0	9.0
CFR30AUG505--	5.0	F,G,J,K	.560 (14.22)	1.250 (31.75)	.032 (0.81)	3.558	39.0	8.5
CFR30AUG565--	5.6	F,G,J,K	.560 (14.22)	1.250 (31.75)	.032 (0.81)	3.984	39.0	8.0
CFR30AUG685--	6.8	F,G,J,K	.610 (15.49)	1.250 (31.75)	.032 (0.81)	4.000	39.0	7.0
CFR30AUG825--	8.2	F,G,J,K	.670 (17.02)	1.250 (31.75)	.032 (0.81)	4.000	39.0	6.5
CFR30AUG106--	10.0	F,G,J,K	.670 (17.02)	1.500 (38.10)	.032 (0.81)	4.000	39.0	5.5
CFR30AUG126--	12.0	F,G,J,K	.740 (18.80)	1.500 (38.10)	.032 (0.81)	4.000	39.0	4.5
CFR30AUG156--	15.0	F,G,J,K	.740 (18.80)	1.500 (38.10)	.032 (0.81)	4.000	37.0	3.5

See footnotes at end of table.

TABLE I. Capacitor characteristics - Continued.

100 VDC								
Part or Indentifying Number (PIN) 1/	Capacitance (nom) µF	Capacitance tolerance available	Dimensions (in inches)			AC ratings (for sinusoidal operation from -55°C to +105°C) 3/		
			D ± .050 (1.27)	L ± .050 (1.27)	M 2/	RMS current Amperes	RMS voltage - Volts 0-400 Hz	RMS voltage - Volts 4 kHz
CFR30AUB273--	.027	F,G,J,K	.170 (4.32)	.400 (10.16)	.020 (0.51)	.128	53.0	53.0
CFR30AUB333--	.033	F,G,J,K	.190 (4.83)	.400 (10.16)	.020 (0.51)	.168	53.0	53.0
CFR30AUB393--	.039	F,G,J,K	.190 (4.83)	.400 (10.16)	.020 (0.51)	.200	53.0	53.0
CFR30AUB473--	.047	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.240	53.0	53.0
CFR30AUB563--	.056	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.288	53.0	53.0
CFR30AUB683--	.068	F,G,J,K	.260 (6.60)	.400 (10.16)	.025 (0.64)	.348	53.0	52.0
CFR30AUB823--	.082	F,G,J,K	.260 (6.60)	.400 (10.16)	.025 (0.64)	.420	53.0	49.0
CFR30AUB104--	.10	F,G,J,K	.230 (5.84)	.530 (13.46)	.025 (0.64)	.308	53.0	46.0
CFR30AUB124--	.12	F,G,J,K	.230 (5.84)	.530 (13.46)	.025 (0.64)	.300	53.0	44.0
CFR30AUB154--	.15	F,G,J,K	.260 (6.60)	.530 (13.46)	.025 (0.64)	.460	53.0	41.0
CFR30AUB184--	.18	F,G,J,K	.260 (6.60)	.530 (13.46)	.025 (0.64)	.396	53.0	38.0
CFR30AUB224--	.22	F,G,J,K	.310 (7.87)	.530 (13.46)	.025 (0.64)	.484	53.0	35.0
CFR30AUB274--	.27	F,G,J,K	.310 (7.87)	.530 (13.46)	.025 (0.64)	.592	53.0	33.0
CFR30AUB334--	.33	F,G,J,K	.350 (8.89)	.530 (13.46)	.025 (0.64)	1.086	53.0	30.0
CFR30AUB394--	.39	F,G,J,K	.310 (7.87)	.750 (19.05)	.025 (0.64)	.544	53.0	28.0
CFR30AUB474--	.47	F,G,J,K	.310 (7.87)	.750 (19.05)	.025 (0.64)	.666	53.0	26.0
CFR30AUB564--	.56	F,G,J,K	.350 (8.89)	.750 (19.05)	.025 (0.64)	1.170	53.0	24.0
CFR30AUB684--	.68	F,G,J,K	.350 (8.89)	.750 (19.05)	.025 (0.64)	1.422	53.0	22.0
CFR30AUB824--	.82	F,G,J,K	.400 (10.16)	.750 (19.05)	.025 (0.64)	1.716	53.0	20.0
CFR30AUB105--	1.0	F,G,J,K	.400 (10.16)	.750 (19.05)	.025 (0.64)	1.770	53.0	18.5
CFR30AUB125--	1.2	F,G,J,K	.350 (8.89)	1.030 (26.16)	.025 (0.64)	1.314	53.0	17.0
CFR30AUB155--	1.5	F,G,J,K	.400 (10.16)	1.030 (26.16)	.025 (0.64)	1.818	53.0	15.0
CFR30AUB185--	1.8	F,G,J,K	.440 (11.18)	1.030 (26.16)	.032 (0.81)	2.184	53.0	13.5
CFR30AUB205--	2.0	F,G,J,K	.440 (11.18)	1.030 (26.16)	.032 (0.81)	2.430	53.0	12.5
CFR30AUB225--	2.2	F,G,J,K	.490 (12.45)	1.030 (26.16)	.032 (0.81)	2.670	53.0	12.0
CFR30AUB275--	2.7	F,G,J,K	.490 (12.45)	1.030 (26.16)	.032 (0.81)	2.964	53.0	10.5
CFR30AUB305--	3.0	F,G,J,K	.490 (12.45)	1.250 (31.75)	.032 (0.81)	2.562	53.0	10.0
CFR30AUB335--	3.3	F,G,J,K	.490 (12.45)	1.250 (31.75)	.032 (0.81)	2.820	53.0	9.5
CFR30AUB395--	3.9	F,G,J,K	.560 (14.22)	1.250 (31.75)	.032 (0.81)	3.330	53.0	8.5
CFR30AUB475--	4.7	F,G,J,K	.610 (15.49)	1.250 (31.75)	.032 (0.81)	4.000	53.0	7.5
CFR30AUB505--	5.0	F,G,J,K	.610 (15.49)	1.250 (31.75)	.032 (0.81)	4.000	53.0	7.0
CFR30AUB565--	5.6	F,G,J,K	.560 (14.22)	1.500 (38.10)	.032 (0.81)	3.684	53.0	6.5
CFR30AUB685--	6.8	F,G,J,K	.610 (15.49)	1.500 (38.10)	.032 (0.81)	4.000	51.0	6.0
CFR30AUB825--	8.2	F,G,J,K	.670 (17.02)	1.500 (38.10)	.032 (0.81)	4.000	48.0	5.5
CFR30AUB106--	10.0	F,G,J,K	.740 (18.80)	1.500 (38.10)	.032 (0.81)	4.000	46.0	4.0

See footnotes at end of table.

TABLE I. Capacitor characteristics - Continued.

150 VDC								
Part or Indentifying Number (PIN) 1/	Capacitance (nom) µF	Capacitance tolerance available	Dimensions (in inches)			AC ratings (for sinusoidal operation from -55°C to +105°C) 3/		
			D ± .050 (1.27)	L ± .050 (1.27)	M 2/	RMS current Amperes	RMS voltage - Volts 0-400 Hz	RMS voltage - Volts 4 kHz
CFR30AUH153--	.015	F,G,J,K	.170 (4.32)	.400 (10.16)	.020 (0.51)	.108	79.0	79.0
CFR30AUH183--	.018	F,G,J,K	.190 (4.83)	.400 (10.16)	.020 (0.51)	.128	79.0	79.0
CFR30AUH223--	.022	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.160	79.0	79.0
CFR30AUH273--	.027	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.196	79.0	79.0
CFR30AUH333--	.033	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.240	79.0	75.0
CFR30AUH393--	.039	F,G,J,K	.260 (6.60)	.400 (10.16)	.025 (0.64)	.284	79.0	71.0
CFR30AUH473--	.047	F,G,J,K	.260 (6.60)	.400 (10.16)	.025 (0.64)	.340	79.0	68.0
CFR30AUH563--	.056	F,G,J,K	.230 (5.84)	.530 (13.46)	.025 (0.64)	.176	79.0	65.0
CFR30AUH683--	.068	F,G,J,K	.230 (5.84)	.530 (13.46)	.025 (0.64)	.212	79.0	61.0
CFR30AUH823--	.082	F,G,J,K	.260 (6.60)	.530 (13.46)	.025 (0.64)	.252	79.0	58.0
CFR30AUH104--	.10	F,G,J,K	.260 (6.60)	.530 (13.46)	.025 (0.64)	.312	79.0	55.0
CFR30AUH124--	.12	F,G,J,K	.310 (7.87)	.530 (13.46)	.025 (0.64)	.372	79.0	51.0
CFR30AUH154--	.15	F,G,J,K	.350 (8.89)	.530 (13.46)	.025 (0.64)	.702	79.0	48.0
CFR30AUH184--	.18	F,G,J,K	.350 (8.89)	.530 (13.46)	.025 (0.64)	.840	79.0	45.0
CFR30AUH224--	.22	F,G,J,K	.310 (7.87)	.750 (19.05)	.025 (0.64)	.436	79.0	42.0
CFR30AUH274--	.27	F,G,J,K	.310 (7.87)	.750 (19.05)	.025 (0.64)	.536	79.0	39.0
CFR30AUH334--	.33	F,G,J,K	.350 (8.89)	.750 (19.05)	.025 (0.64)	.978	79.0	35.0
CFR30AUH394--	.39	F,G,J,K	.400 (10.16)	.750 (19.05)	.025 (0.64)	1.158	79.0	32.0
CFR30AUH474--	.47	F,G,J,K	.400 (10.16)	.750 (19.05)	.025 (0.64)	1.182	79.0	30.0
CFR30AUH564--	.56	F,G,J,K	.350 (8.89)	1.030 (26.16)	.025 (0.64)	.960	79.0	28.0
CFR30AUH684--	.68	F,G,J,K	.400 (10.16)	1.030 (26.16)	.025 (0.64)	1.170	79.0	26.0
CFR30AUH824--	.82	F,G,J,K	.400 (10.16)	1.030 (26.16)	.025 (0.64)	1.272	79.0	24.0
CFR30AUH105--	1.0	F,G,J,K	.440 (11.18)	1.030 (26.16)	.032 (0.81)	1.554	79.0	22.0
CFR30AUH125--	1.2	F,G,J,K	.490 (12.45)	1.030 (26.16)	.032 (0.81)	2.064	79.0	19.0
CFR30AUH155--	1.5	F,G,J,K	.490 (12.45)	1.250 (31.75)	.032 (0.81)	1.812	79.0	17.0
CFR30AUH185--	1.8	F,G,J,K	.560 (14.22)	1.250 (31.75)	.032 (0.81)	2.178	79.0	15.0
CFR30AUH205--	2.0	F,G,J,K	.560 (14.22)	1.250 (31.75)	.032 (0.81)	2.418	79.0	14.0
CFR30AUH225--	2.2	F,G,J,K	.560 (14.22)	1.250 (31.75)	.032 (0.81)	2.658	79.0	12.5
CFR30AUH275--	2.7	F,G,J,K	.610 (15.49)	1.250 (31.75)	.032 (0.81)	3.264	79.0	11.0
CFR30AUH305--	3.0	F,G,J,K	.610 (15.49)	1.500 (38.10)	.032 (0.81)	2.796	79.0	10.0
CFR30AUH335--	3.3	F,G,J,K	.610 (15.49)	1.500 (38.10)	.032 (0.81)	3.078	79.0	9.0
CFR30AUH395--	3.9	F,G,J,K	.670 (17.02)	1.500 (38.10)	.032 (0.81)	3.636	76.0	8.0
CFR30AUH475--	4.7	F,G,J,K	.740 (18.80)	1.500 (38.10)	.032 (0.81)	4.000	72.0	7.0
CFR30AUH505--	5.0	F,G,J,K	.740 (18.80)	1.500 (38.10)	.032 (0.81)	4.000	71.0	6.0

See footnotes at end of table.

TABLE I. Capacitor characteristics - Continued.

200 VDC								
Part or Indentifying Number (PIN) 1/	Capacitance (nom) µF	Capacitance tolerance available	Dimensions (in inches)			AC ratings (for sinusoidal operation from -55°C to +105°C) 3/		
			D ± .050 (1.27)	L ± .050 (1.27)	M 2/	RMS current Amperes	RMS voltage - Volts 0-400 Hz	RMS voltage - Volts 4 kHz
CFR30AUC103--	.010	F,G,J,K	.170 (4.32)	.400 (10.16)	.020 (0.51)	.088	106.0	106.0
CFR30AUC123--	.012	F,G,J,K	.190 (4.83)	.400 (10.16)	.020 (0.51)	.104	106.0	103.0
CFR30AUC153--	.015	F,G,J,K	.190 (4.83)	.400 (10.16)	.020 (0.51)	.132	106.0	98.0
CFR30AUC183--	.018	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.156	106.0	93.0
CFR30AUC223--	.022	F,G,J,K	.230 (5.84)	.400 (10.16)	.025 (0.64)	.192	106.0	89.0
CFR30AUC273--	.027	F,G,J,K	.260 (6.60)	.400 (10.16)	.025 (0.64)	.232	106.0	84.0
CFR30AUC333--	.033	F,G,J,K	.260 (6.60)	.400 (10.16)	.025 (0.64)	.288	106.0	79.0
CFR30AUC393--	.039	F,G,J,K	.230 (5.84)	.530 (13.46)	.025 (0.64)	.144	106.0	75.0
CFR30AUC473--	.047	F,G,J,K	.230 (5.84)	.530 (13.46)	.025 (0.64)	.176	106.0	71.0
CFR30AUC563--	.056	F,G,J,K	.260 (6.60)	.530 (13.46)	.025 (0.64)	.208	106.0	67.0
CFR30AUC683--	.068	F,G,J,K	.260 (6.60)	.530 (13.46)	.025 (0.64)	.252	106.0	63.0
CFR30AUC823--	.082	F,G,J,K	.310 (7.87)	.530 (13.46)	.025 (0.64)	.304	106.0	59.0
CFR30AUC104--	.10	F,G,J,K	.310 (7.87)	.530 (13.46)	.025 (0.64)	.372	106.0	55.0
CFR30AUC124--	.12	F,G,J,K	.350 (8.89)	.530 (13.46)	.025 (0.64)	.672	106.0	51.0
CFR30AUC154--	.15	F,G,J,K	.310 (7.87)	.750 (19.05)	.025 (0.64)	.356	106.0	47.0
CFR30AUC184--	.18	F,G,J,K	.310 (7.87)	.750 (19.05)	.025 (0.64)	.360	106.0	44.0
CFR30AUC224--	.22	F,G,J,K	.350 (8.89)	.750 (19.05)	.025 (0.64)	.786	106.0	40.0
CFR30AUC274--	.27	F,G,J,K	.350 (8.89)	.750 (19.05)	.025 (0.64)	.810	106.0	37.0
CFR30AUC334--	.33	F,G,J,K	.400 (10.16)	.750 (19.05)	.025 (0.64)	.993	106.0	33.0
CFR30AUC394--	.39	F,G,J,K	.350 (8.89)	1.030 (26.16)	.025 (0.64)	.804	106.0	30.0
CFR30AUC474--	.47	F,G,J,K	.400 (10.16)	1.030 (26.16)	.025 (0.64)	.996	106.0	28.0
CFR30AUC564--	.56	F,G,J,K	.400 (10.16)	1.030 (26.16)	.025 (0.64)	1.152	106.0	25.0
CFR30AUC684--	.68	F,G,J,K	.440 (11.18)	1.030 (26.16)	.032 (0.81)	1.404	106.0	23.0
CFR30AUC824--	.82	F,G,J,K	.490 (12.45)	1.030 (26.16)	.032 (0.81)	1.692	106.0	20.0
CFR30AUC105--	1.0	F,G,J,K	.490 (12.45)	1.250 (31.75)	.032 (0.81)	1.452	106.0	18.0
CFR30AUC125--	1.2	F,G,J,K	.490 (12.45)	1.250 (31.75)	.032 (0.81)	1.740	106.0	16.0
CFR30AUC155--	1.5	F,G,J,K	.560 (14.22)	1.250 (31.75)	.032 (0.81)	2.178	105.0	14.0
CFR30AUC185--	1.8	F,G,J,K	.560 (14.22)	1.500 (38.10)	.032 (0.81)	2.010	102.0	12.0
CFR30AUC205--	2.0	F,G,J,K	.560 (14.22)	1.500 (38.10)	.032 (0.81)	2.238	102.0	11.0
CFR30AUC225--	2.2	F,G,J,K	.610 (15.49)	1.500 (38.10)	.032 (0.81)	2.460	99.0	10.5
CFR30AUC275--	2.7	F,G,J,K	.670 (15.49)	1.500 (38.10)	.032 (0.81)	3.024	94.0	10.0
CFR30AUC305--	3.0	F,G,J,K	.670 (15.49)	1.500 (38.10)	.032 (0.81)	3.360	91.0	9.0
CFR30AUC335--	3.3	F,G,J,K	.740 (18.80)	1.500 (38.10)	.032 (0.81)	3.690	89.0	8.0
CFR30AUC395--	3.9	F,G,J,K	.740 (18.80)	1.500 (38.10)	.032 (0.81)	4.000	85.0	7.0

1/ The completePIN will include additional symbols to indicate capacitance tolerance (F, G, J, or K) and FRL (M, P, R, or S).
2/ Tolerances on lead wire diameters are +.005 inch, -.003 inch on .032 inch diameter (No. 20 AWG) and .025 inch diameter (No. 22 AWG); and +.004 inch, -.001 inch on .020 inch diameter (No. 24 AWG).
3/ These ratings are maximum ac currents and ac voltages. Under no condition should either of these values be exceeded.

REQUIREMENTS:

Dimensions and configuration: See figure 1 and table I.

Case: Non-hermetic; nonmetal.

Dielectric: Normally polyphenylene sulfide, metalized.

Leads: Solder-coated copper clad steel.

Capacitance value: See table I.

Capacitance tolerance: See table I.

Rated voltage: See table I (ac and dc voltages).

Operating temperature range: -55°C to +125°C for dc operation (with linear derating above +85°C to 50% of the +85°C rating); -55°C to +105°C for ac operation.

Failure rate level (FRL): M, P, R, and S.

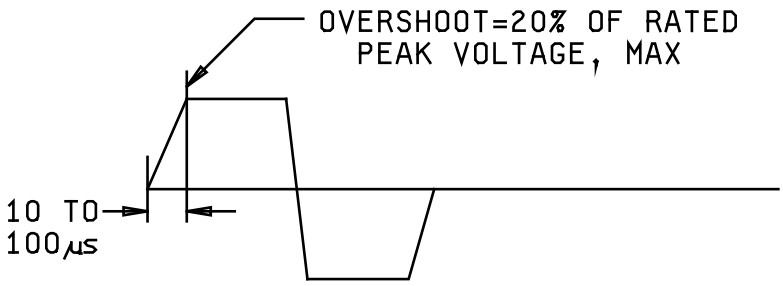
Preconditioning: Not applicable.

Burn in: In accordance with MIL-PRF-55514 except paragraph (b) shall be at +105°C, +0°C, -5°C, and the applied voltage shall be 120 percent of the rms voltage specified in table I.

Dielectric withstanding voltage (DWV): In accordance with MIL-PRF-55514 with the following exceptions:

Terminal to terminal:

AC: 100 Hz ±10 Hz square wave, peak-to-peak voltage, two times dc rated voltage for 60 seconds.



DC: 200 percent of dc rated voltage for 60 seconds, minimum.

Capacitance: within the specified tolerance. In accordance with MIL-PRF-55514 except that capacitors having a nominal capacitance of 1 µF or greater shall be measured at 100 Hz ±10 Hz.

Dissipation factor (DF): 0.3 percent, maximum. In accordance with MIL-PRF-55514 except that capacitors having a nominal capacitance of 1 µF or greater shall be measured at 100 Hz ±10 Hz.

Insulation resistance (IR): In accordance with MIL-PRF-55514 except charge time 5 minutes, maximum; however, for capacitance values greater than 1.0 µF, an additional 1 minute per µF is permitted.

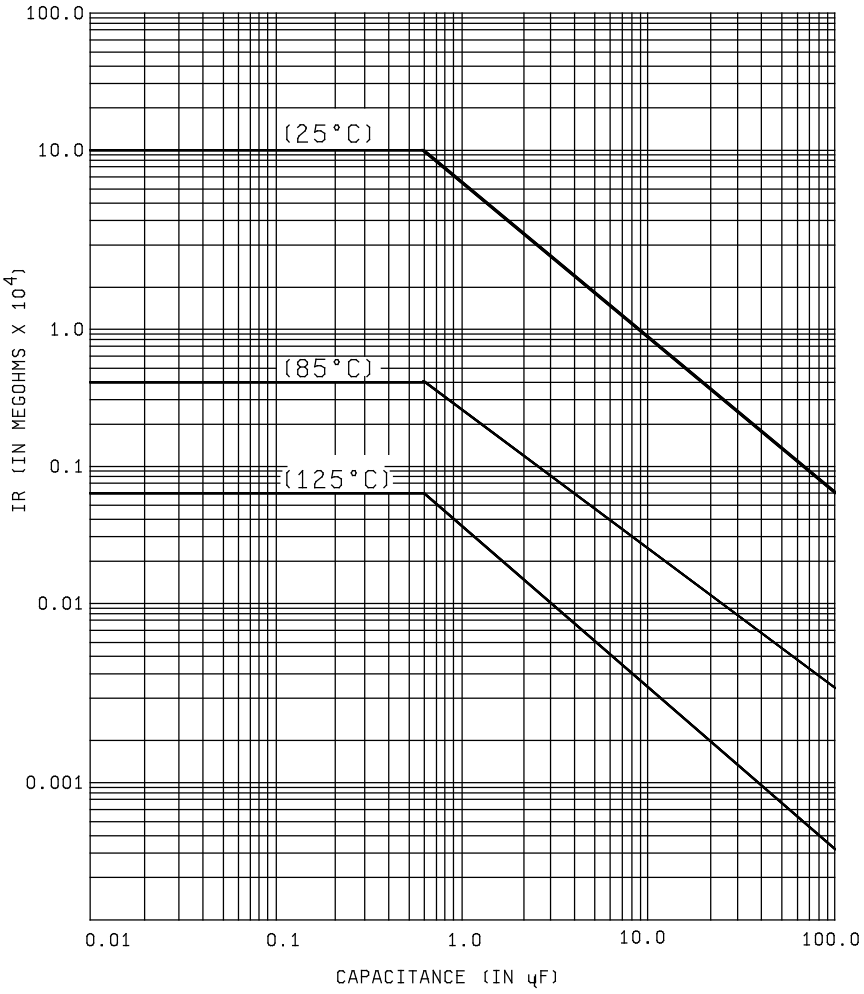


FIGURE 2. Insulation resistance vs. capacitance value.

Low temperature conditioning and capacitance change with temperature: In accordance with MIL-PRF-55514 except that the capacitance change shall be as specified in table II.

TABLE II. Capacitance change.

Temperature	Capacitance change
t_3 to t_2	± 2.5%
t_3 to t_4	± 1.5%
t_3 to t_1 or t_5	± 0.50%

t_1 = +25C
t_2 = +125C
t_3 = +25C
t_4 = -55C
t_5 = +25C

Resistance to soldering heat: Method 210 of MIL-STD-202, condition B. ΔCapacitance: Maximum of ±0.25 percent.
Life (at +85°C): In accordance with 2,000 hour (qualification inspection) of MIL-PRF-55514, except:

Accelerated condition: 125 percent of +85°C rated voltage.

Rated condition: 100 percent of +85°C rated voltage.

IR (terminal to terminal) (at +25°C): Not less than 33.3 percent of initial requirement.

ΔCapacitance: Maximum of ±5.0 percent.

DF (at +25°C) after life: 0.6 percent, maximum.

AC conditioning: Capacitors shall be exposed to 120 percent of the 400 Hz voltage specified in table I at + 105°C, +0°C, -5°C.

Test samples shall be in accordance with table III.

Post test requirements:

DF (at +105°C): 0.6 percent, maximum.

IR (terminal to terminal) (at +25°C): Not less than 33.3 percent of initial requirement.

ΔCapacitance: Maximum of ±5.0 percent.

TABLE III. AC conditioning test samples.

DC rated voltage (volts)	Total capacitance Value of sample (μF)	Capacitance Range for selection of sample 1/
50	40	.056 to 18.0 μF
75	40	.033 to 15.0 μF
100	20	.027 to 10.0 μF
150	40	.015 to 5.0 μF
200	20	.010 to 3.9 μF

1/ Each test sample shall contain at least one capacitor of the highest and lowest capacitance value of each voltage group manufactured during the three month period.

Marking: In accordance with MIL-PRF-55514.

Referenced documents: In addition to MIL-PRF-55514, this document references MIL-STD-202.

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

Review activities:
Navy - AS, MC, OS
Air Force - 19

Preparing activity:
DLA - CC

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