

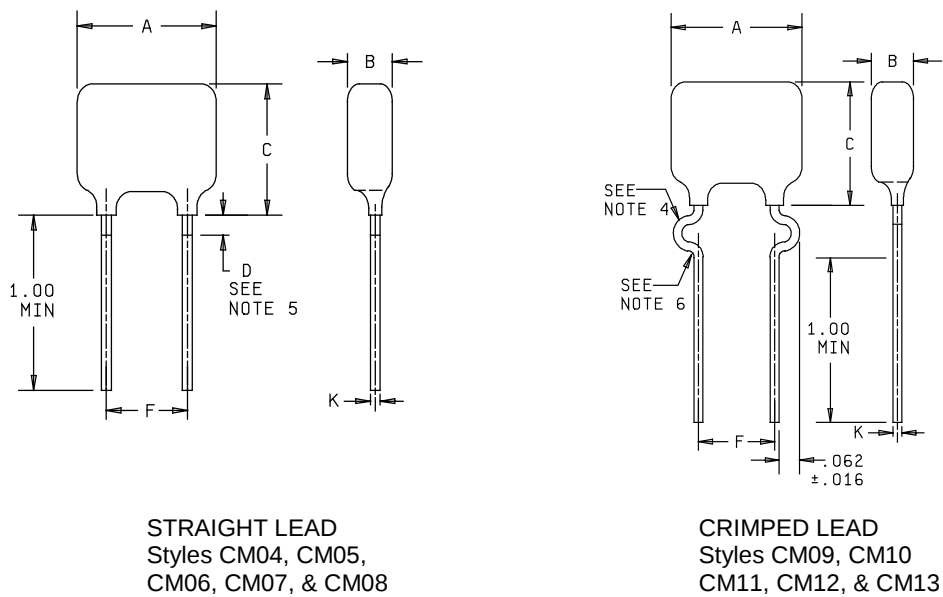
MILITARY SPECIFICATION SHEET

CAPACITORS, FIXED, MICA DIELECTRIC, STYLES CM04, CM05
CM06, CM07, CM08, CM09, CM10, CM11, CM12, AND CM13

INACTIVE FOR NEW DESIGN AFTER
21 DECEMBER 1970. USE [MIL-PRF-39001/5](#).

This specification sheet is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the capacitors described
herein shall consist of this specification sheet and [MIL-C-5](#).



NOTES:

1. Dimensions are in inches (see [table I](#)).
2. Millimeters are in parentheses (see [table I](#)).
3. Metric equivalents are given for general information only.
4. Magnitude of nicks, pinches or die marks appearing on the leads shall not exceed 1/5 of the wire diameter.
5. The "D" dimension may not be solderable as it may be covered by a clear epoxy or resinous coating.
6. No resinous phenolic or clear epoxy coating on leads below crimp.

Inches	mm
.016	0.41
.062	1.57
1.00	25.40

FIGURE 1. Styles, straight lead and crimped lead.

TABLE I. Dimensions.

Capacitance range (pF)	A		B		C, max		D, max Straight lead styles only	F Spacing ± .031 (0.79)	K, Dia. ±.002 (0.05)	
	Min	Max	Min	Max	Straight lead styles	Crimp lead styles			Straight lead styles	Crimp lead styles
Styles CM04 and CM09										
1 to 24, incl	.275 (6.99)	.360 (9.14)	.080 (2.03)	.190 (4.83)	.330 (8.38)	.500 (12.70)	.125 (3.18)	.150 (3.81)	.016 (0.36)	.020 (0.51)
27	.275 (6.99)	.370 (9.40)	.080 (2.03)	.190 (4.83)	.330 (8.38)	.500 (12.70)	.125 (3.18)	.150 (3.81)	.016 (0.36)	.020 (0.51)
30 to 68, incl	.275 (6.99)	.370 (9.40)	.080 (2.03)	.190 (4.83)	.340 (8.64)	.500 (12.70)	.125 (3.18)	.150 (3.81)	.016 (0.36)	.020 (0.51)
75	.275 (6.99)	.370 (9.40)	.090 (2.29)	.200 (5.08)	.340 (8.64)	.500 (12.70)	.125 (3.18)	.150 (3.81)	.016 (0.36)	.020 (0.51)
82	.275 (6.99)	.370 (9.40)	.090 (2.29)	.200 (5.08)	.350 (8.89)	.500 (12.70)	.125 (3.18)	.150 (3.81)	.016 (0.36)	.020 (0.51)
91 to 100, incl	.275 (6.99)	.370 (9.40)	.090 (2.29)	.200 (5.08)	.350 (8.89)	.500 (12.70)	.125 (3.18)	.150 (3.81)	.016 (0.36)	.020 (0.51)
110 to 120, incl	.275 (6.99)	.380 (9.65)	.090 (2.29)	.200 (5.08)	.350 (8.89)	.500 (12.70)	.125 (3.18)	.150 (3.81)	.016 (0.36)	.020 (0.51)
130	.275 (6.99)	.380 (9.65)	.090 (2.29)	.200 (5.08)	.360 (9.14)	.500 (12.70)	.125 (3.18)	.150 (3.81)	.016 (0.36)	.020 (0.51)
150 to 160, incl	.275 (6.99)	.380 (9.65)	.100 (2.54)	.210 (5.33)	.360 (9.14)	.500 (12.70)	.125 (3.18)	.150 (3.81)	.016 (0.36)	.020 (0.51)
180	.275 (6.99)	.390 (9.91)	.100 (2.54)	.210 (5.33)	.370 (9.40)	.500 (12.70)	.125 (3.18)	.150 (3.81)	.016 (0.36)	.020 (0.51)
200 to 390, incl	.275 (6.99)	.390 (9.91)	.110 (2.79)	.220 (5.59)	.380 (9.65)	.500 (12.70)	.125 (3.18)	.150 (3.81)	.016 (0.36)	.020 (0.51)
Styles CM05 and CM10										
1 to 62, incl	.390 (9.91)	.450 (11.43)	.080 (2.03)	.170 (4.32)	.360 (9.14)	.500 (12.70)	.125 (3.18)	.225 (5.72)	.025 (0.64)	.032 (0.81)
68 to 82, incl	.390 (9.91)	.450 (11.43)	.080 (2.03)	.180 (4.57)	.360 (9.14)	.500 (12.70)	.125 (3.18)	.225 (5.72)	.025 (0.64)	.032 (0.81)
91 to 100, incl	.390 (9.91)	.460 (11.68)	.080 (2.03)	.180 (4.57)	.360 (9.14)	.500 (12.70)	.125 (3.18)	.225 (5.72)	.025 (0.64)	.032 (0.81)
110 to 130, incl	.390 (9.91)	.460 (11.68)	.080 (2.03)	.180 (4.57)	.370 (9.40)	.500 (12.70)	.125 (3.18)	.225 (5.72)	.025 (0.64)	.032 (0.81)
150 to 180, incl	.390 (9.91)	.460 (11.68)	.090 (2.29)	.190 (4.83)	.370 (9.40)	.500 (12.70)	.125 (3.18)	.225 (5.72)	.025 (0.64)	.032 (0.81)
200	.390 (9.91)	.460 (11.68)	.090 (2.29)	.190 (4.83)	.380 (9.65)	.500 (12.70)	.125 (3.18)	.225 (5.72)	.025 (0.64)	.032 (0.81)
220 to 240, incl	.390 (9.91)	.460 (11.68)	.100 (2.54)	.200 (5.08)	.380 (9.65)	.500 (12.70)	.125 (3.18)	.225 (5.72)	.025 (0.64)	.032 (0.81)
270 to 330, incl	.390 (9.91)	.470 (11.94)	.100 (2.54)	.210 (5.33)	.390 (9.91)	.500 (12.70)	.125 (3.18)	.225 (5.72)	.025 (0.64)	.032 (0.81)
360 to 390, incl	.390 (9.91)	.470 (11.94)	.110 (2.79)	.220 (5.59)	.400 (10.16)	.500 (12.70)	.125 (3.18)	.225 (5.72)	.025 (0.64)	.032 (0.81)
Styles CM06 and CM11										
430 to 470, incl	.550 (13.97)	.640 (16.26)	.080 (2.03)	.200 (5.08)	.510 (12.95)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
510 to 620, incl	.560 (14.22)	.650 (16.51)	.080 (2.03)	.200 (5.08)	.510 (12.95)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
680 to 910, incl	.560 (14.22)	.650 (16.51)	.080 (2.03)	.210 (5.33)	.510 (12.95)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
1000 to 1100, incl	.560 (14.22)	.650 (16.51)	.080 (2.03)	.220 (5.59)	.520 (13.21)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
1200 to 1300, incl	.570 (14.48)	.660 (16.78)	.090 (2.29)	.220 (5.59)	.520 (13.21)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
1500	.570 (14.48)	.660 (16.78)	.090 (2.29)	.230 (5.84)	.520 (13.21)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
1600	.570 (14.48)	.660 (16.78)	.100 (2.54)	.230 (5.84)	.530 (13.46)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
1800 to 2000, incl	.580 (14.73)	.670 (17.02)	.100 (2.54)	.240 (6.10)	.530 (13.46)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
2200	.580 (14.73)	.670 (17.02)	.110 (2.79)	.250 (6.35)	.530 (13.46)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
2400	.580 (14.73)	.670 (17.02)	.110 (2.79)	.260 (6.60)	.540 (13.72)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
2700	.590 (14.99)	.680 (17.27)	.120 (3.05)	.270 (6.86)	.540 (13.72)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
3000	.590 (14.99)	.680 (17.27)	.130 (3.30)	.280 (7.11)	.550 (13.97)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
3300	.590 (14.99)	.680 (17.27)	.140 (3.56)	.290 (7.37)	.550 (13.97)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
3600	.590 (14.99)	.680 (17.27)	.150 (3.81)	.300 (7.62)	.560 (14.22)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
3900	.590 (14.99)	.690 (17.53)	.150 (3.81)	.310 (7.87)	.560 (14.22)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
4300	.590 (14.99)	.690 (17.53)	.150 (3.81)	.330 (8.38)	.570 (14.48)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)
4700	.590 (14.99)	.700 (17.78)	.160 (4.06)	.350 (8.89)	.580 (14.73)	.672 (17.07)	.141 (3.58)	.350 (8.89)	.032 (0.81)	.032 (0.81)

TABLE I. Dimensions - Continued.

Capacitance range (pF)	A		B		C, max		D, max Straight lead styles only	F Spacing ± .031 (0.79)	K, Dia. ±.002 (0.05)	
	Min	Max	Min	Max	Straight lead styles	Crimp lead styles			Straight lead styles	Crimp lead styles
Styles CM07 and CM12										
5100 5600 to 6200, incl	.680 (17.27)	.780 (19.81)	.150 (3.81)	.280 (7.11)	.860 (21.84)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
	.680 (17.27)	.780 (19.81)	.150 (3.81)	.290 (7.37)	.870 (22.10)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
	.680 (17.27)	.780 (19.81)	.150 (3.81)	.300 (7.62)	.870 (22.10)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
	.690 (17.53)	.790 (20.07)	.150 (3.81)	.310 (7.87)	.880 (22.35)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
	.690 (17.53)	.790 (20.07)	.150 (3.81)	.320 (8.13)	.880 (22.35)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
8200	.690 (17.53)	.790 (20.07)	.150 (3.81)	.330 (8.38)	.880 (22.35)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
9100	.700 (17.78)	.800 (20.32)	.200 (5.08)	.340 (8.64)	.890 (22.61)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
10,000	.700 (17.78)	.800 (20.32)	.200 (5.08)	.350 (8.89)	.890 (22.61)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
11,000	.700 (17.78)	.800 (20.32)	.200 (5.08)	.360 (9.14)	.890 (22.61)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
12,000	.710 (18.03)	.810 (20.57)	.200 (5.08)	.370 (9.40)	.890 (22.61)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
13,000	.710 (18.03)	.810 (20.57)	.250 (6.35)	.390 (9.91)	.900 (22.86)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
15,000	.720 (18.29)	.820 (20.83)	.250 (6.35)	.410 (10.41)	.900 (22.86)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
16,000	.720 (18.29)	.820 (20.83)	.250 (6.35)	.430 (10.92)	.910 (23.11)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
18,000	.730 (18.54)	.830 (21.08)	.250 (6.35)	.450 (11.43)	.920 (23.37)	1.031 (26.19)	.141 (3.58)	.425 (10.80)	.040 (1.02)	.040 (1.02)
20,000										
Styles CM08 and CM13										
22,000	1.300 (33.02)	1.420 (36.07)	.180 (4.57)	.310 (7.87)	.880 (22.35)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
24,000	1.310 (33.27)	1.430 (36.32)	.180 (4.57)	.320 (8.13)	.880 (22.35)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
27,000	1.320 (33.53)	1.430 (36.32)	.180 (4.57)	.330 (8.38)	.880 (22.35)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
30,000	1.330 (33.78)	1.440 (36.58)	.180 (4.57)	.350 (8.89)	.890 (22.61)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
33,000	1.330 (33.78)	1.440 (36.58)	.180 (4.57)	.360 (9.14)	.890 (22.61)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
36,000	1.340 (34.04)	1.450 (36.83)	.180 (4.57)	.380 (9.65)	.900 (22.86)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
39,000	1.340 (34.04)	1.450 (36.83)	.220 (5.59)	.400 (10.16)	.900 (22.86)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
43,000	1.350 (34.29)	1.460 (37.08)	.225 (5.72)	.420 (10.67)	.910 (23.11)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
47,000	1.360 (34.54)	1.470 (37.34)	.250 (6.35)	.450 (11.43)	.910 (23.11)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
51,000	1.370 (34.80)	1.480 (37.59)	.250 (6.35)	.470 (11.94)	.920 (23.37)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
56,000	1.350 (34.29)	1.460 (37.08)	.225 (5.72)	.420 (10.67)	.910 (23.11)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
62,000	1.360 (34.54)	1.470 (37.34)	.250 (6.35)	.450 (11.43)	.920 (23.37)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
68,000	1.370 (34.80)	1.480 (37.59)	.260 (6.60)	.470 (11.94)	.920 (23.37)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
75,000	1.360 (34.54)	1.470 (37.34)	.240 (6.10)	.440 (11.18)	.910 (23.11)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
82,000	1.370 (34.80)	1.480 (37.59)	.310 (7.87)	.460 (11.68)	.920 (23.37)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)
91,000	1.390 (35.31)	1.500 (38.10)	.340 (8.64)	.500 (12.70)	.940 (23.88)	1.062 (26.97)	.141 (3.58)	1.050 (26.67)	.040 (1.02)	.040 (1.02)

MIL-C-5/18F

REQUIREMENTS:

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

Case: Dipped.

Capacitance value: See [table II](#).

Capacitance tolerance: See [table II](#).

Symbol	Capacitance tolerance
D	± 5 pF
F	$\pm 1\%$
G	$\pm 2\%$
J	$\pm 5\%$

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

Operating temperature range: See [table II](#).

Symbol	Temperature range
O	-55°C to +125°C
P	-55°C to +150°C

Vibration grade: Grade 3 (10 to 2,000 Hz).

Characteristic: See [table II](#).

Symbol	Temperature coefficient (ppm/°C)	Capacitance drift	Capacitance values
C	-200 to +200	$\pm(0.5 \text{ percent} + 0.1 \text{ pF})$	1 pF thru 18 pF
E	-20 to +100	$\pm(0.1 \text{ percent} + 0.1 \text{ pF})$	20 pF thru 82 pF
F	0 to +70	$\pm(0.05 \text{ percent} + 0.1 \text{ pF})$	91 pF and greater

Dielectric withstanding voltage: [Method 301 of MIL-STD-202](#); 200 percent of rated dc voltage for not less than 1 second nor more than 5 seconds.

Barometric pressure, qualification only: [Method 105 of MIL-STD-202](#), test condition D; 100,000 feet. Test potential, 100 percent of rated dc voltage for 500 volt styles CM04 and CM09; 150 percent for lesser voltage ratings and all other styles.

Insulation resistance: [Method 302 of MIL-STD-202](#), test condition A.

Capacitance rating	Minimum insulation resistance
0 to 10,000 pF 10,000 pF and greater	<u>At +25°C</u> 100,000 megohms
	1,000 megohm-microfarads <u>1/</u>
0 to 3,300 pF 3,300 pF and greater	<u>At +125°C</u> 10,000 megohms minimum
	33 megohm-microfarads <u>1/</u>
0 to 1,500 pF 1,500 pF and greater	<u>At +150°C</u> 5,000 megohms
	7.5 megohm-microfarads <u>1/</u>

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

Dissipation factor: See [MIL-C-5](#).

Capacitance: [Method 305 of MIL-STD-202](#).

Vibration: [Method 204 of MIL-STD-202](#), test condition D.

MIL-C-5/18F

Thermal shock: [Method 107 of MIL-STD-202](#), condition A, except the high temperature shall be as follows:

Symbol O: +125°C.

Symbol P: +150°C.

Immersion: [Method 104 of MIL-STD-202](#), test condition B.

Dielectric withstanding voltage: Meet initial requirement.

Insulation resistance: At least 30 percent of initial requirement.

Dissipation factor: Not greater than 150 percent of initial requirement.

Capacitance change: Shall not exceed ± 1 percent of nominal value of 1 pF, whichever is greater.

Shock (specified pulse): [Method 213 of MIL-STD-202](#), test condition I (100G).

Solderability: [Method 208 of MIL-STD-202](#).

Terminal strength:

Pull test: Capacitor held by one terminal and a 5 pound load gradually applied to other terminal and maintained for at least 5 seconds.

Twist test (straight wire leads only): 5 alternate 360° rotations.

Bend test (crimped wire leads only): 90° two directions from vertical.

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

Dielectric withstanding voltage: Initial requirement.

Insulation resistance: At least 30 percent of initial requirement.

Dissipation factor: Not greater than 150 percent of initial requirement.

Capacitance change: Shall not exceed ± 1 percent of nominal value of 1 pF, whichever is greater.

Temperature coefficient and capacitance drift: Within the limits specified for the applicable characteristic.

Low temperature storage and life: 48 hours at -55 +0°C, -2°C immediately followed by qualification or performance test, as applicable.

Qualification test: 2,000 hours at applicable high test temperature with 150 percent of rated dc voltage applied.

Dielectric withstanding voltage: Initial requirement.

Insulation resistance: Initial requirement.

Dissipation factor: Not greater than 150 percent of initial requirement.

Capacitance change: Shall not exceed ± 1 percent of nominal value or 1 pF, whichever is greater.

Performance check: Conditions and requirements in accordance with qualification test except that test duration shall be 250 hours.

MIL-C-5/18F

Continuation test: Units that have been subjected to the 250 hour test shall be continued for an additional 1,750 hours and meet the requirements for the qualification test.

Qualification inspection: Qualification inspection (Group A) is required.

TABLE II. Type designations.

Styles CM04 and CM09				
Type designation 1/	Capacitance value (pF)	DC rated voltage (volts)	Operating temperature range	Capacitance tolerances
CM--CD010D-3	1	500	O,P	D
CM--CD050D-3	5	500	O,P	D
CM--CD060D-3	6	500	O,P	D
CM--CD070D-3	7	500	O,P	D
CM--CD080D-3	8	500	O,P	D
CM--CD100D-3	10	500	O,P	D
CM--CD120J-3	12	500	O,P	J
CM--CD150J-3	15	500	O,P	J
CM--CD180J-3	18	500	O,P	J
CM--ED200J-3	20	500	O,P	J
CM--ED220J-3	22	500	O,P	J
CM--ED240J-3	24	500	O,P	J
CM--ED270--3	27	500	O,P	G,J
CM--ED300--3	30	500	O,P	G,J
CM--ED330--3	33	500	O,P	G,J
CM--ED360--3	36	500	O,P	G,J
CM--ED390--3	39	500	O,P	G,J
CM--ED430--3	43	500	O,P	G,J
CM--ED470--3	47	500	O,P	G,J
CM--ED510--3	51	500	O,P	F,G,J
CM--ED560--3	56	500	O,P	F,G,J
CM--ED620--3	62	500	O,P	F,G,J
CM--ED680--3	68	500	O,P	F,G,J
CM--ED750--3	75	500	O,P	F,G,J
CM--ED820--3	82	500	O,P	F,G,J
CM--FD910--3	91	500	O,P	F,G,J
CM--FD101--3	100	500	O,P	F,G,J
CM--FD111--3	110	500	O,P	F,G,J
CM--FD121--3	120	500	O,P	F,G,J
CM--FD131--3	130	500	O,P	F,G,J
CM--FD151--3	150	500	O,P	F,G,J
CM--FD161--3	160	500	O,P	F,G,J
CM--FD181--3	180	500	O,P	F,G,J
CM--FD201--3	200	500	O,P	F,G,J
CM--FD221--3	220	500	O,P	F,G,J
CM--FD241--3	240	500	O,P	F,G,J
CM--FC271--3	270	300	O,P	F,G,J
CM--FC301--3	300	300	O,P	F,G,J
CM--FA331--3	330	100	O,P	F,G,J
CM--FA361--3	360	100	O,P	F,G,J
CM--FA391--3	390	100	O,P	F,G,J

See footnote at end of table.

TABLE II. Type designations - Continued.

Styles CM05 and CM10				
Type designation 1/	Capacitance value (pF)	DC rated voltage (volts)	Operating temperature range	Capacitance tolerances
CM--CD010D-3	1	500	O,P	D
CM--CD050D-3	5	500	O,P	D
CM--CD060D-3	6	500	O,P	D
CM--CD070D-3	7	500	O,P	D
CM--CD080D-3	8	500	O,P	D
CM--CD100D-3	10	500	O,P	D
CM--CD120J-3	12	500	O,P	J
CM--CD150J-3	15	500	O,P	J
CM--CD180J-3	18	500	O,P	J
CM--ED200J-3	20	500	O,P	J
CM--ED220J-3	22	500	O,P	J
CM--ED240J-3	24	500	O,P	J
CM--ED270--3	27	500	O,P	G,J
CM--ED300--3	30	500	O,P	G,J
CM--ED330--3	33	500	O,P	G,J
CM--ED360--3	36	500	O,P	G,J
CM--ED390--3	39	500	O,P	G,J
CM--ED430--3	43	500	O,P	G,J
CM--ED470--3	47	500	O,P	G,J
CM--ED510--3	51	500	O,P	F,G,J
CM--ED560--3	56	500	O,P	F,G,J
CM--ED620--3	62	500	O,P	F,G,J
CM--ED680--3	68	500	O,P	F,G,J
CM--ED750--3	75	500	O,P	F,G,J
CM--ED820--3	82	500	O,P	F,G,J
CM--FD910--3	91	500	O,P	F,G,J
CM--FD101--3	100	500	O,P	F,G,J
CM--FD111--3	110	500	O,P	F,G,J
CM--FD121--3	120	500	O,P	F,G,J
CM--FD131--3	130	500	O,P	F,G,J
CM--FD151--3	150	500	O,P	F,G,J
CM--FD161--3	160	500	O,P	F,G,J
CM--FD181--3	180	500	O,P	F,G,J
CM--FD201--3	200	500	O,P	F,G,J
CM--FD221--3	220	500	O,P	F,G,J
CM--FD241--3	240	500	O,P	F,G,J
CM--FD271--3	270	500	O,P	F,G,J
CM--FD301--3	300	500	O,P	F,G,J
CM--FD331--3	330	500	O,P	F,G,J
CM--FD361--3	360	500	O,P	F,G,J
CM--FD391--3	390	500	O,P	F,G,J

See footnote at end of table.

MIL-C-5/18F

TABLE II. Type designations - Continued.

Styles CM06 and CM11				
Type designation 1/	Capacitance value (pF)	DC rated voltage (volts)	Operating temperature range	Capacitance tolerances
CM--FD431--3	430	500	O,P	F,G,J
CM--FD471--3	470	500	O,P	F,G,J
CM--FD511--3	510	500	O,P	F,G,J
CM--FD561--3	560	500	O,P	F,G,J
CM--FD621--3	620	500	O,P	F,G,J
CM--FD681--3	680	500	O,P	F,G,J
CM--FD751--3	750	500	O,P	F,G,J
CM--FD821--3	820	500	O,P	F,G,J
CM--FD911--3	910	500	O,P	F,G,J
CM--FD102--3	1,000	500	O,P	F,G,J
CM--FD112--3	1,100	500	O,P	F,G,J
CM--FD122--3	1,200	500	O,P	F,G,J
CM--FD132--3	1,300	500	O,P	F,G,J
CM--FD152--3	1,500	500	O,P	F,G,J
CM--FD162--3	1,600	500	O,P	F,G,J
CM--FD182--3	1,800	500	O,P	F,G,J
CM--FD202--3	2,000	500	O,P	F,G,J
CM--FD222--3	2,200	500	O,P	F,G,J
CM--FD242--3	2,400	500	O,P	F,G,J
CM--FD272--3	2,700	500	O,P	F,G,J
CM--FD302--3	3,000	500	O,P	F,G,J
CM--FD332--3	3,300	500	O,P	F,G,J
CM--FD362--3	3,600	500	O,P	F,G,J
CM--FD392--3	3,900	500	O,P	F,G,J
CM--FD432--3	4,300	500	O,P	F,G,J
CM--FD472--3	4,700	500	O,P	F,G,J
CM07 and CM12				
CM--FD512--3	5,100	500	O,P	F,G,J
CM--FD562--3	5,600	500	O,P	F,G,J
CM--FD622--3	6,200	500	O,P	F,G,J
CM--FD682--3	6,800	500	O,P	F,G,J
CM--FD752--3	7,500	500	O,P	F,G,J
CM--FD822--3	8,200	500	O,P	F,G,J
CM--FD912--3	9,100	500	O,P	F,G,J
CM--FD103--3	10,000	500	O,P	F,G,J
CM--FD113--3	11,000	500	O,P	F,G,J
CM--FD123--3	12,000	500	O,P	F,G,J
CM--FD133--3	13,000	500	O,P	F,G,J
CM--FD153--3	15,000	500	O,P	F,G,J
CM--FD163--3	16,000	500	O,P	F,G,J
CM--FD183--3	18,000	500	O,P	F,G,J
CM--FD203--3	20,000	500	O,P	F,G,J

See footnote at end of table.

TABLE II. Type designations - Continued.

Styles CM08 and CM13				
Type designation <u>1/</u>	Capacitance value (pF)	DC rated voltage (volts)	Operating temperature range	Capacitance tolerances
CM--FD223--3	22,000	500	O,P	F,G,J
CM--FD243--3	24,000	500	O,P	F,G,J
CM--FD273--3	27,000	500	O,P	F,G,J
CM--FD303--3	30,000	500	O,P	F,G,J
CM--FD333--3	33,000	500	O,P	F,G,J
CM--FD363--3	36,000	500	O,P	F,G,J
CM--FD393--3	39,000	500	O,P	F,G,J
CM--FD433--3	43,000	500	O,P	F,G,J
CM--FD473--3	47,000	500	O,P	F,G,J
CM--FD513--3	51,000	500	O,P	F,G,J
CM--FC563--3	56,000	300	O,P	F,G,J
CM--FC623--3	62,000	300	O,P	F,G,J
CM--FC683--3	68,000	300	O,P	F,G,J
CM--FA753--3	75,000	100	O,P	F,G,J
CM--FA823--3	82,000	100	O,P	F,G,J
CM--FA913--3	91,000	100	O,P	F,G,J

1/ Complete type designation, where applicable, will include additional letter symbols to indicate the style, capacitance tolerance, and operating temperature range.

Referenced documents: In addition to [MIL-C-5](#), this document references [MIL-STD-202](#).

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

Preparing activity:
 DLA - CC
 (Project 5910-2013-006)

Review activities:
 Navy - AS, CG, MC, OS, SH
 Air Force - 19, 99

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