

CORNELL DUBILIER Aluminum Electrolytic Capacitors



CDE CORNELL DUBILIER MLP/MLS FLATPACK® ULTRA LONG LIFE CAPACITORS

The MLP/MLS Flatpack® series unique flat design increases available board space by 27% compared to standard round capacitors. The broad, flat sides make heat-sinking simple and effective, and the box shape encourages efficient stacking. High-purity material assures extremely long life, and for values rated at 250V and less exhibit superior low-temperature impedance down to -55°C.

Features:

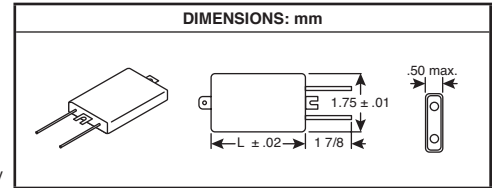
- MLP = 85°C, Aluminum Case
- MLS = 125°C, **Stainless Steel Case**
- Low profile replacement for snap-in capacitors
- Can readily heat sink to double the ripple capability
- Near-hermetic welded seal assures 50-year life

Type MLP/MLS:

- Avionics
- Telecom
- Power supply
- Circuit cards
- High power inverter/converter

Specifications:

- Height: < 1/2"
- Capacitance: 220µF-20,000µF
- Voltage: 25VDC-450VDC
- Operates: -55°C to 85°C for 250V, -40°C to 85°C for >250V
- 2,000-Hour life test: 85°C
- Type MLP delivers 25 joules of energy storage in a 1/2" height with 50 years life @ +45°C



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	CDE Part No.	Volt (DC)	Value (µF)	Max. Temp. °C	Case Size D x L (IN)	Max. ESR 25°C (mΩ)		Ripple (A) at 85°		Price Each		
						120 Hz	20 kHz	120 Hz	20 kHz	1	10	25
5987-50V442	MLP442M050EK1A	50	4400	85	1.75 x 1.5	97	70	3.7	4.4	80.50	66.72	59.57
5987-50V113	MLP113M050EB1A	50	11000	85	1.75 x 3.0	36	27	8.3	9.6	96.42	83.45	74.57
5987-80V332	MLP332M080EB1A	80	3300	85	1.75 x 3.0	44	31	7.5	9	207.08	163.92	135.64
598-MLP272M100EBOA	MLP272M100EBOA	100	2700	85	1.75 x 3.0	46	33	7.4	8.7	96.41	83.44	74.54
5987-250V821	MLP821M250EB1A	250	820	85	1.75 x 3.0	172	103	3.8	4.9	76.39	74.12	70.55
598-MLP331M420EBOA	MLP331M420EBOA	420	330	85	1.75 x 3.0	530	390	2.1	2.5	125.36	112.81	106.52
5987-450V281	MLP281M450EBOA	450	280	85	1.75 x 3.0	585	480	2	2.3	125.36	112.81	106.52
598-MLS442M040EK0A	MLS442M040EK0A	40	4400	125	1.75 x 1.5	97	70	10.3	12.1	161.86	154.42	147.91
598-MLS152M060EK0A	MLS152M060EK0A	60	1500	125	1.75 x 1.5	106	77	9.8	11.5	161.85	154.42	147.90
598-MLS112M075EK0A	MLS112M075EK0A	75	1100	125	1.75 x 1.5	112	78	9.6	11.5	119.62	114.13	113.65
598-MLS331M200EK1A	MLS331M200EK1A	200	330	125	1.75 x 1.5	426	258	4.9	6.2	161.85	154.42	147.90
5987-MLS821M200EB1A	MLS821M200EB1A	200	820	125	1.75 x 3.0	172	103	7.7	10	202.49	193.20	185.02
598-MLS561M250EB1A	MLS561M250EB1A	250	560	125	1.75 x 3.0	240	157	6.5	8.1	202.49	193.20	185.02

Aluminum Caps, Can

CDE CORNELL DUBILIER DCMC 85°C HIGH CAPACITANCE SCREW TERMINAL LARGE CAN

Features:

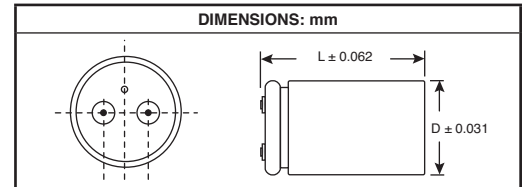
- Low ESR
- High capacitance value
- Handle large ripple current
- Thermal-Pak extended cathode construction assures cool operation with heat flow from the capacitor element to the can

Applications:

- Power supply filters
- UPS systems
- Computer hold-up power
- Energy storage applications

Specifications:

- Voltage range: 6.3VDC to 450VDC
- Temperature range: -40°C to 85°C
- Tolerance: $\pm 20\%$VDC = -10% to +5%
>200VDC = -10% to +50%
- Capacitance Range: 110µF to 2.7µF
- Life: 2000 hours @ 85°C



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	CDE Part No.	Value (µF)	Voltage (V)	Case D x L (In.)	Max. ESR (mΩ) 120Hz/25°C	Max. Ripple (A) 120Hz/85°C	Price Each			
							1	10	25	100
598-DCMC50V103	DCMC103U050AA2B	10000	50	1.375 x 2.125	30.9	5.6	17.60	14.80	13.92	12.95
598-DCMC50V163	DCMC163U050AB2B	16000	50	1.375 x 3.125	23.6	7.4	24.69	20.77	19.53	18.17
598-DCMC50V263	DCMC263U050AC2B	26000	50	1.375 x 4.125	18.7	10.4	43.49	36.58	34.39	32.01
598-DCMC50V383	DCMC383U050BB2B	38000	50	2.000 x 3.125	16.3	11.9	54.25	46.11	42.60	39.09
598-DCMC63V702	DCMC702U063AA2B	7000	63	1.375 x 2.125	39.0	5.0	21.85	18.38	17.28	16.08
598-DCMC75V223	DCMC223U075AF2B	22000	75	1.375 x 5.625	21.4	10.8	57.63	45.63	37.79	32.53
598-DCMC100V163	DCMC163U100EC2B	16000	100	1.750 x 4.125	28.8	8.0	44.53	37.46	35.22	32.78
598-DCMC100V203	DCMC203U100BC2B	20000	100	2.000 x 4.125	19.9	10.7	69.92	58.81	57.53	56.51
598-DCMC200V352	DCMC352U200BC2B	3500	200	2.000 x 4.125	0.03	10.8	37.58	31.61	30.87	30.36
598-DCMC250V152	DCMC152U250AB2B	1500	250	1.375 x 3.125	88.0	4.1	23.98	20.18	19.99	19.78
598-DCMC250V472	DCMC472U250BC2B	4700	250	2.000 x 4.125	31.5	8.9	68.46	57.60	57.26	56.46
598-DCMC250V682	DCMC682U250BF2B	6800	250	2.000 x 5.625	21.2	11.9	92.67	77.96	73.30	68.22
598-DCMC450V271	DCMC271U450AA2B	270	450	1.375 x 2.125	437.7	1.5	39.13	32.60	30.98	28.53
598-DCMC450V471	DCMC471U450AB2B	470	450	1.375 x 3.125	253.2	2.4	39.98	33.64	31.63	29.43
598-DCMC450V102	DCMC102U450BB2B	1000	450	2.000 x 3.125	137.0	4.3	79.57	67.63	61.99	57.32

Cornell Dubilier

CDE CORNELL DUBILIER CDHC SNAP-IN HYBRID CARBONCAP POWER ULTRACAPACITORS

Cornell Dubilier CDHC Hybrid Carboncap Power Ultracapacitors are designed for board mountable power backup applications. These hybrid capacitors charge rapidly and discharge slowly, making them ideal for applications requiring low power, low energy, and low charge/discharge cycle rates such as solar lighting, LED lighting, portable devices, and emergency operation of vehicle doors and windows.



Features:

- Rapid change
- PC Board mountable
- Standard snap in design

Specifications:

- Capacitance: 220F-1000F
- Capacitance Tolerance: -5% / +10%
- Voltage: 2.30VDC-2.50VDC

Applications:

- Solar Lighting
- LED Lighting
- Portable devices
- Emergency door and window operation

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	CDE Part No.	Fig.	Value (F)	Voltage (V)	Max Temp (°C)	Case DxL (mm)	Max. ESR DC (mΩ)	Leakage Current Max. (mA)	Price Each			
									1	10	25	100
598-CDHC221K2R3SR	CDHC221K2R3SR	A	220	2.3	60	22 x 45	40	0.2	15.32	14.86	14.41	13.98
598-CDHC301K2R3SR	CDHC301K2R3SR	A	300	2.3	60	22 x 45	25	0.55	18.21	17.66	17.13	16.61
598-CDHC821K2R3SR	CDHC821K2R3SR	A	820	2.3	60	27 x 80	12	0.5	56.92	55.21	53.55	51.94

CDE CORNELL DUBILIER CDLC ULTRACAPACITORS

Cornell Dubilier CDLC Carboncap High-Power Board Mount Ultracapacitors offer extremely high capacitance values (farads) ranging from 100 to 3000F with extraordinary cycle life in axial, M12 threaded, and 2 and 4 pin snap in versions. This leading edge, organic electrolyte D cell ultracapacitor can easily handle more than a half million duty cycles and is designed for reverse proof surface mount assembly. CDLC Carboncap High-Power Board Mount Ultracapacitors are suited for industrial power back up, renewable energy systems, short term UPS, and telecom applications.



Features:

- High power performance
- Ultra Low ESR Characteristics Axial, M12 threaded, and 2 and 4 pin snap in termination styles available

Specifications:

- Capacitance: 100F-600F
- Capacitance Tolerance: -5% / +10%
- Voltage: 2.70VDC-2.85VDC

Applications:

- Grid stabilization
- Wind turbine pitch
- Short term UPS
- Industrial power backup
- Renewable energy systems
- Rail system power

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	CDE Part No.	Fig.	Value (F)	Voltage (V)	Max Temp (°C)	Case DxL (mm)	Max. ESR DC (mΩ)	Leakage Current Max. (mA)	Price Each			
									1	10	25	100
598-CDLC101K2R7SR	CDLC101K2R7SR	A	100	2.7	65	22 x 45	4.2	0.27	21.38	20.73	20.11	19.67
598-CDLC351K2R7SR	CDLC351K2R7SR	A	350	2.7	65	35 x 59	3.2	1	20.62	20.00	19.40	18.97
598-CDLC401K2R7SR	CDLC401K2R7SR	A	400	2.7	65	35 x 69	3.2	1.2	23.90	23.18	22.48	21.99
598-CDLC122P2R7K04	CDLC122P2R7K04	B	1200	2.7	65	60.7 x 74	0.58	2.7	81.93	79.47	77.08	74.77
598-CDLC152P2R7K04	CDLC152P2R7K04	B	1500	2.7	65	60.7 x 85	0.47	3	93.49	90.68	87.96	85.32
598-CDLC202P2R7K04	CDLC202P2R7K04	B	2000	2.7	65	60.7 x 102	0.35	4.2	113.44	110.03	106.73	103.53
598-CDLC302P2R7K04	CDLC302P2R7K04	B	3000	2.7	65	60.7 x 138	0.29	5.2	105.04	101.88	98.83	95.86
598-CDLC302P2R7LR	CDLC302P2R7LR	C	3000	2.7	65	60.5 x 138.5	0.26	5	125.97	116.39	112.89	108.86
598-CDLC351E2R7T11	CDLC351E2R7T11	D	350	2.7	65	33.3 x 61.5	3.2	0.32	16.63	16.13	15.64	15.17
598-CDLC351K2R7S4	CDLC351K2R7S4	E	350	2.7	65	35.3 x 62	2.7	1	21.60	20.95	20.32	19.88

