



Aluminum Electrolytic Capacitors

+105°C Long Life Snap-Mount



FEATURES

Multiple Case Sizes - High Voltage – High Current

APPLICATIONS

Filtering – Switching Power Supplies

Operating Temperature Range		-40°C to +105°C (≤250WVDC) -25°C to +105°C (>250WVDC)														
Capacitance Tolerance		+20% at 120 Hz, 20°C														
Surge Voltage	WVDC	10	16	25	35	50	63	80	100	160	200	250	350	400	450	
	SVDC	13	20	32	44	63	79	100	120	200	250	300	400	450	500	
Dissipation Factor tan δ (120 Hz)	WVDC	10	16	25	35	50	63	80	100	160	200	250	350	400	450	
		.55	.5	.45	.4	.35	.3	.25	.2	.15	.15	.15	.15	.15	.15	
		For capacitances above 33000uF, add to DF value $\frac{(\text{Capacitance}-33000)}{10000} * 0.1$														
Leakage Current @20°C, Rated WVDC applied		Time							5 Minutes							
		$3\sqrt{CV}$														
Impedance Ratio (120 Hz)	WVDC	10	16	25	35	50	63	80	100	160	200	250	350	400	450	
	-25°C/+20°C	4	4	4	4	4	4	4	4	3	3	3	8	8	8	
	-40°C/+20°C	15	15	15	15	15	15	15	15	15	15	15	-	-	-	
Load Life		2000 hours with rated voltage and rated ripple current applied at 105°C														
		Capacitance Change		≤20% of initial measured value												
		Dissipation Factor		≤200% of maximum specified value												
		Leakage Current		≤100% of maximum specified value												
Shelf Life		1000 hours at 105°C with no voltage applied														
		Capacitance Change		≤20% of initial measured value												
		Dissipation Factor		≤200% of maximum specified value												
		Leakage Current		≤100% of maximum specified value												
Ripple Current Multipliers		Frequency (Hz)							Temperature (°C)							
		WVDC	60	120	400	1k	10k	50k	40	60	70	85	105			
		≤100	0.8	1.0	1.1	1.15	1.25	1.25	1	1	1	1	1			
		≥160	0.8	1.0	1.1	1.15	1.47	1.47	1	1	1	1	1			



Your Global Source for World-Class Capacitors

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North America
Tel: 847.675.1760
sales@illcap.com

Asia
Tel: 852.2793 0931
sales@illcap.com.hk



Lead Style Options

<p>Code Z (standard)</p> <p>Diameter 20 to 40 mm</p>	<p>Code W</p> <p>Diameter 20 to 40 mm</p>												
<p>Code P</p> <p>Diameter 22 to 35 mm</p>	<p>Code D</p> <p>Diameter 30 to 40 mm</p>												
<p>Code 9</p> <p>Diameter 25 to 35 mm</p>	<p>Code T</p> <p>Diameter 25 to 35 mm</p>												
<p>Code 4</p> <p>Diameter 35 to 45 mm</p>	<p>Code 4S (straight leads)</p> <p>Diameter 35 to 45 mm</p>												
<p>Code 5</p> <p>Diameter 40 to 50 mm</p>	<p>Code G</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>D</td> <td>35</td> <td>40</td> <td>50</td> <td>63</td> <td>76</td> </tr> <tr> <td>P</td> <td>14</td> <td>14</td> <td>18</td> <td>25</td> <td>25</td> </tr> </tbody> </table> <p>Diameter 35 to 76 mm</p>	D	35	40	50	63	76	P	14	14	18	25	25
D	35	40	50	63	76								
P	14	14	18	25	25								

LMH

+105°C, standard 2000 hrs

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
68	450	686LMH450MZBC	365.71	0.47	22x25
82	450	826LMH450MZBD	3032.68	0.55	22x30
100	400	107LMH400MZBC	2486.8	0.7	22x25
100	450	107LMH450MZBC	2486.8	0.64	22x25
100	450	107LMH450MZCC	2486.8	0.64	25x25
120	350	127LMH350MZBC	2072.33	0.75	22x25
120	400	127LMH400MZBD	2072.33	0.75	22x30
120	400	127LMH400MZBC	2072.33	0.68	22x25
120	450	127LMH450MZBD	2072.33	0.69	22x30
120	450	127LMH450MZCC	2072.33	0.69	25x25
120	450	127LMH450MZBE	2072.33	0.72	22x35
120	450	127LMH450MZCD	2072.33	0.72	25x30
150	160	157LMH160MZBD	1657.86	0.71	22x30
150	400	157LMH400MZBD	1657.86	0.88	22x30
150	400	157LMH400MZCC	1657.86	0.88	25x25
150	450	157LMH450MZCD	1657.86	0.79	25x30
150	450	157LMH450MZDC	1657.86	0.79	30x25
150	450	157LMH450MZBE	1657.86	0.79	22x35
180	350	187LMH350MZBD	1381.55	0.9	22x30
180	350	187LMH350MZCC	1381.55	0.9	25x25
180	400	187LMH400MZBE	1381.55	0.95	22x35
180	400	187LMH400MZCD	1381.55	0.95	25x30
180	400	187LMH400MZBD	1381.55	0.73	22x30
180	400	187LMH400MZCC	1381.55	0.73	25x25
180	450	187LMH450MZBF	1381.55	0.79	22x40
180	450	187LMH450MZCD	1381.55	0.79	25x30
180	450	187LMH450MZBG	1381.55	0.87	22x45
180	450	187LMH450MZCF	1381.55	0.87	25x40
180	450	187LMH450MZDD	1381.55	0.87	30x30
220	250	227LMH250MZBC	1130.62	0.89	22x25
220	350	227LMH350MZBE	1130.62	1	22x35
220	350	227LMH350MZCD	1130.62	1	25x30
220	400	227LMH400MZBG	1130.62	1.1	22x45
220	400	227LMH400MZCE	1130.62	1.1	25x35
220	400	227LMH400MZDC	1130.62	1.1	30x25
220	400	227LMH400MZBE	1130.62	0.85	22x35
220	400	227LMH400MZCD	1130.62	0.85	25x30
220	450	227LMH450MZBG	1130.62	0.87	22x45
220	450	227LMH450MZCE	1130.62	0.87	25x35
220	450	227LMH450MZCG	1130.62	1	25x45
220	450	227LMH450MZDD	1130.62	1	30x30
220	450	227LMH450MZEC	1130.62	1	35x25
270	250	277LMH250MZBC	921.04	1.1	22x25
270	350	277LMH350MZBF	921.04	1.1	22x40
270	350	277LMH350MZCD	921.04	1.1	25x30
270	350	277LMH350MZDC	921.04	1.1	30x25
270	400	277LMH400MZBH	921.04	1.22	22x50
270	400	277LMH400MZCF	921.04	1.22	25x40
270	400	277LMH400MZDD	921.04	1.22	30x30
270	400	277LMH400MZEC	921.04	1.22	35x25
270	400	277LMH400MZBF	921.04	1	22x40
270	400	277LMH400MZCE	921.04	1	25x35
270	400	277LMH400MZCD	921.04	1	30x25
270	450	277LMH450MZBH	921.04	1.05	22x50
270	450	277LMH450MZCF	921.04	1.05	25x40
270	450	277LMH450MZDD	921.04	1.05	30x30
270	450	277LMH450MZEC	921.04	1.05	35x25
270	450	277LMH450MZED	921.04	1.19	35x30

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
270	450	277LMH450MZCH	921.04	1.19	25x50
270	450	277LMH450MZDF	921.04	1.19	30x40
330	250	337LMH250MZBD	753.58	1.2	22x30
330	250	337LMH250MZCC	753.58	1.2	25x25
330	350	337LMH350MZBG	753.58	1.2	22x45
330	350	337LMH350MZCG	753.58	1.2	25x45
330	350	337LMH350MZDD	753.58	1.2	30x30
330	350	337LMH350MZCD	753.58	1.2	30x30
330	400	337LMH400MZCG	753.58	1.44	25x45
330	400	337LMH400MZED	753.58	1.44	35x30
330	400	337LMH400MZDE	753.58	1.37	30x35
330	400	337LMH400MZBH	753.58	1.15	22x50
330	400	337LMH400MZCF	753.58	1.15	25x40
330	400	337LMH400MZDD	753.58	1.44	30x30
330	400	337LMH400MZEC	753.58	1.15	35x25
330	450	337LMH450MZCH	753.58	1.2	25x50
330	450	337LMH450MZDE	753.58	1.2	30x35
330	450	337LMH450MZED	753.58	1.38	35x30
330	450	337LMH450MZDG	753.58	1.38	30x45
330	450	337LMH450ZEE	753.58	1.38	35x35
390	200	397LMH200MZBC	637.64	1.31	22x25
390	250	397LMH250MZBE	637.64	1.3	22x35
390	250	397LMH250MZCC	637.64	1.3	25x25
390	250	397LMH250MZBD	637.64	1.3	22x30
390	350	397LMH350MZCG	637.64	1.3	25x45
390	350	397LMH350MZDE	637.64	1.3	30x35
390	400	397LMH400MZCH	637.64	1.55	25x50
390	400	397LMH400MZED	637.64	1.55	35x30
390	400	397LMH400MZDF	637.64	1.58	30x40
390	400	397LMH400MZCG	637.64	1.4	25x45
390	450	397LMH450MZDF	637.64	1.38	30x40
390	450	397LMH450ZEE	637.64	1.55	35x35
390	450	397LMH450MZDH	637.64	1.74	30x50
470	160	477LMH160MZBC	529.11	1.4	22x25
470	200	477LMH200MZBD	529.11	1.44	22x30
470	250	477LMH250MZBE	529.11	1.4	22x35
470	250	477LMH250MZBF	529.11	1.4	22x40
470	250	477LMH250MZCD	529.11	1.4	25x30
470	350	477LMH350MZCH	529.11	1.4	25x50
470	350	477LMH350MZDE	529.11	1.4	30x35
470	350	477LMH350MZED	529.11	1.4	35x30
470	400	477LMH400MZEE	529.11	1.68	35x35
470	400	477LMH400MZDG	529.11	1.68	30x45
470	400	477LMH400MZCH	529.11	1.55	25x50
470	400	477LMH400MZDF	529.11	1.55	30x40
470	400	477LMH400MZED	529.11	1.55	35x30
470	450	477LMH450MZDG	529.11	1.55	30x45
470	450	477LMH450MZEF	529.11	1.55	35x40
470	450	477LMH450MZEG	529.11	1.74	35x45
560	160	567LMH160MZBC	444.071	1.4	22x25
560	200	567LMH200MZBD	444.071	1.48	22x30
560	200	567LMH200MZCC	444.071	1.48	25x25
560	250	567LMH250MZCE	444.071	1.49	25x35
560	250	567LMH250MZDC	444.071	1.44	30x25
560	250	567LMH250MZBF	444.071	1.4	22x40
560	350	567LMH350MZDG	444.071	1.5	30x45
560	350	567LMH350MZEE	444.071	1.5	35x35
560	400	567LMH400MZDH	444.071	1.9	30x50
560	400	567LMH400MZEF	444.071	1.9	35x40

LMH

+105°C, standard 2000 hrs

Capacitance (μF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
3900	63	398LMH063MZBF	127.528	2.7	22x40
3900	63	398LMH063MZCD	127.528	2.7	25x30
3900	63	398LMH063MZDC	127.528	2.7	30x25
3900	80	398LMH080MZCG	106.273	3	25x45
3900	80	398LMH080MZDE	106.273	3	30x35
3900	100	398LMH100MZDG	85.02	3.6	30x45
3900	100	398LMH100MZEE	85.02	3.6	35x35
4700	35	478LMH035MZBC	141.1	2.2	22x25
4700	50	478LMH050MZBF	123.46	2.5	22x40
4700	50	478LMH050MZCD	123.46	2.5	25x30
4700	63	478LMH063MZBG	105.82	3	22x45
4700	63	478LMH063MZCE	105.82	3	25x35
4700	80	478LMH080MZCH	141.1	3.3	25x50
4700	80	478LMH080MZDF	88.184	3.3	30x40
4700	80	478LMH080MZED	88.184	3.3	35x30
4700	100	478LMH100MZDH	70.547	3.8	30x50
5600	35	568LMH035MZBD	118.42	2.4	22x30
5600	35	568LMH035MZCC	118.42	2.4	25x25
5600	50	568LMH050MZBG	103.62	2.8	22x45
5600	50	568LMH050MZCE	103.62	2.8	25x35
5600	50	568LMH050MZDC	103.62	2.8	30x25
5600	63	568LMH063MZBH	88.81	3.3	22x50
5600	63	568LMH063MZCF	88.81	3.3	25x40
5600	63	568LMH063MZDD	88.81	3.3	30x30
5600	63	568LMH063MZEC	88.81	3.3	35x25
5600	80	568LMH080MZDG	74.01	3.7	30x45
5600	80	568LMH080MZEE	74.01	3.7	35x35
5600	100	568LMH100MZEG	59.21	4.1	35x45
6800	25	688LMH025MZBC	109.71	2.4	22x25
6800	35	688LMH035MZBE	97.52	2.6	22x35
6800	50	688LMH050MZBH	85.33	3.3	22x50
6800	50	688LMH050MZCF	85.33	3.3	25x40
6800	50	688LMH050MZDD	85.33	3.3	30x30
6800	50	688LMH050MZEC	85.33	3.3	35x25
6800	63	688LMH063MZCG	73.14	3.6	25x45
6800	63	688LMH063MZDE	73.14	3.6	30x35
6800	63	688LMH063MZED	73.14	3.6	35x30
6800	80	688LMH080MZDH	60.951	3.9	30x50
6800	80	688LMH080MZEF	60.951	3.9	35x40
8200	25	828LMH025MZBD	109.71	2.7	22x30
8200	25	828LMH025MZCC	109.71	2.7	25x25
8200	35	828LMH035MZBF	97.52	2.9	22x40
8200	35	828LMH035MZCD	97.52	2.9	25x30
8200	50	828LMH050MZCG	85.33	3.6	25x45
8200	50	828LMH050MZDE	85.33	3.6	30x35
8200	63	828LMH063MZDF	73.14	3.9	30x40
8200	63	828LMH063MZEE	73.14	3.9	35x35
8200	80	828LMH080MZEG	60.95	4.3	35x45
10000	16	109LMH016MZBC	82.89	2.6	22x25
10000	25	109LMH025MZBE	74.6	3	22x35
10000	35	109LMH035MZBG	66.32	3.2	22x45
10000	35	109LMH035MZCE	66.32	3.2	25x35
10000	35	109LMH035MZDC	66.32	3.2	30x25
10000	50	109LMH050MZCH	58.03	4	25x50
10000	50	109LMH050MZDF	58.03	4	30x40
10000	50	109LMH050MZED	58.03	4	35x30
10000	63	109LMH063MZDG	49.74	4.4	30x45
10000	63	109LMH063MZEF	49.74	4.4	35x40

Capacitance (μF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
12000	10	129LMH010MZBC	75.99	2.2	22x25
12000	16	129LMH016MZBD	69.08	2.9	22x30
12000	16	129LMH016MZCC	69.08	2.9	25x25
12000	25	129LMH025MZBF	62.17	3.2	22x40
12000	25	129LMH025MZCD	62.17	3.2	25x30
12000	35	129LMH035MZBH	55.26	3.5	22x50
12000	35	129LMH035MZCF	55.26	3.5	25x40
12000	35	129LMH035MZDD	55.26	3.5	30x30
12000	35	129LMH035MZEC	55.26	3.5	35x25
12000	50	129LMH050MZDG	48.35	4.5	30x45
12000	50	129LMH050MZEE	48.35	4.5	35x35
12000	63	129LMH063MZEG	365.71	4.8	35x45
15000	10	159LMH010MZBD	60.79	2.3	22x30
15000	16	159LMH016MZBE	55.262	3.2	22x35
15000	25	159LMH025MZBG	49.74	3.6	22x45
15000	25	159LMH025MZCE	49.74	3.6	25x35
15000	25	159LMH025MZDC	49.74	3.6	30x25
15000	35	159LMH035MZCG	44.21	3.9	25x45
15000	35	159LMH035MZDE	44.21	3.9	30x35
15000	35	159LMH035MZED	44.21	3.9	35x30
15000	50	159LMH050MZDH	38.68	4.8	30x50
15000	50	159LMH050MZEF	38.68	4.8	35x40
15000	63	159LMH063MZEH	188.39	5.4	35x50
18000	10	189LMH010MZBD	50.657	2.4	22x30
18000	10	189LMH010MZCC	50.657	2.4	25x25
18000	16	189LMH016MZBF	46.05	3.5	22x40
18000	16	189LMH016MZCD	46.05	3.5	25x30
18000	25	189LMH025MZBH	41.45	3.9	22x50
18000	25	189LMH025MZCF	41.45	3.9	25x40
18000	25	189LMH025MZDD	41.45	3.9	30x30
18000	25	189LMH025MZEC	41.45	3.9	35x25
18000	35	189LMH035MZDF	36.84	4.3	30x40
18000	35	189LMH035MZEJ	36.84	4.3	35x35
18000	50	189LMH050MZEG	32.24	5.2	35x45
22000	10	229LMH010MZBE	41.45	2.6	22x35
22000	10	229LMH010MZCD	41.45	2.6	25x30
22000	16	229LMH016MZBG	37.68	3.8	22x45
22000	16	229LMH016MZCE	37.68	3.8	25x35
22000	16	229LMH016MZDC	37.68	3.8	30x25
22000	25	229LMH025MZCG	33.91	4.3	25x45
22000	25	229LMH025MZDE	33.91	4.3	30x35
22000	25	229LMH025MZED	33.91	4.3	35x30
22000	35	229LMH035MZDG	30.14	5	30x45
22000	35	229LMH035MZEF	30.14	5	35x40
27000	10	279LMH010MZBF	33.77	3.1	22x40
27000	10	279LMH010MZCE	33.77	3.1	25x35
27000	16	279LMH016MZBH	30.7	4.2	22x50
27000	16	279LMH016MZCF	30.7	4.2	25x40
27000	16	279LMH016MZDD	30.7	4.2	30x30
27000	16	279LMH016MZDE	30.7	4.2	35x25
27000	25	279LMH025MZDF	27.63	4.8	30x40
27000	25	279LMH025MZEJ	27.63	4.8	35x35
27000	35	279LMH035MZEG	24.56	5.3	35x45
33000	10	339LMH010MZBG	27.63	3.4	22x45
33000	10	339LMH010MZCF	27.63	3.4	25x40
33000	16	339LMH016MZCG	25.12	4.7	25x45
33000	16	339LMH016MZDE	25.12	4.7	30x35
33000	25	339LMH025MZDG	22.61	5.5	30x45

LMH

+105°C, standard 2000 hrs

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
33000	25	339LMH025MZF	22.61	5.5	35x40
33000	35	339LMH035MZEH	20.1	5.9	35x50
39000	10	399LMH010MZCG	25.93	3.7	25x45
39000	10	399LMH010MZDD	25.93	3.7	30x30
39000	10	399LMH010MZEC	25.93	3.7	35x25
39000	16	399LMH016MZDF	21.26	5.1	30x40
39000	16	399LMH016MZED	21.26	5.1	35x30
39000	25	399LMH025MZDH	19.13	5.8	30x50
39000	25	399LMH025MZEG	19.13	5.8	35x45
47000	10	479LMH010MZCH	24.34	4.2	25x50
47000	10	479LMH010MZDE	24.34	4.2	30x35
47000	10	479LMH010MZED	24.34	4.2	35x30

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (A) 120 Hz, +105°C	Dims DxL (mm)
47000	16	479LMH016MZDG	22.58	5.5	30x45
47000	16	479LMH016MZEE	22.58	5.5	35x35
47000	25	479LMH025MZEH	20.81	6.3	35x50
56000	10	569LMH010MZDF	23.09	5	30x40
56000	10	569LMH010MZEE	23.09	5	35x35
56000	16	569LMH016MZDH	21.61	6	30x50
56000	16	569LMH016MZEH	21.61	6	35x50
68000	10	689LMH010MZDG	21.94	5.4	30x45
68000	10	689LMH010MZEF	21.94	5.4	35x40
68000	16	689LMH016MZEG	20.72	6.4	35x45
82000	10	829LMH010MZEG	21.03	5.9	35x45
100000	10	104LMH010MZEH	20.2259	6.5	35x50