

LMU

105°C Snap-Mount Aluminum Electrolytic Capacitors



Applications

- Filtering
- Switching power supplies

Features

- High Voltage
- RoHS Compliant

Specifications

Operating Temperature Range		-40°C to +105°C (10 to 100VDC) -25°C to +105°C(160 to 500VDC)														
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	500
	SVDC	13	20	32	44	63	79	100	120	200	250	300	400	450	500	550
Dissipation Factor (120 Hz)	WVDC	10	16	25	35	50	63	80	100	160	200	250	350	400	450	500
	tan δ	.7	.5	.45	.35	.3	.3	.3	.2	.15	.15	.15	.15	.15	.2	.2
Leakage current @20°C, Rated WVDC applied		Time			5 Minutes											
					.02CV or 2000uA, whichever is less											
Impedance ratio (120 Hz)	WVDC	10	16	25	35	50	63	80	100	160	200	250	350	400	450	500
	-25°C/+20°C	6	6	6	6	4	4	4	4	8	8	8	8	8	8	8
	-40°C/+20°C	15	15	15	15	15	15	15	15	-	-	-	-	-	-	-
Load Life		2000 hours with rated voltage applied at 105°C with full rated ripple current applied														
		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% initial measured value											
		Dissipation factor			<200% of maximum specified value											
		Insulation resistance			<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	1.0	1.1	1.15	1.25	2.4	2.2	2.0	1.7	1.0				
	>100 to<250	0.8	1.0	1.0	1.11	1.18	1.2	2.4	2.2	2.0	1.7	1.0				
	>250	0.8	1.0	1.0	1.14	1.14	1.2	2.4	2.2	2.0	1.7	1.0				



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Cap (uF)	WVDC	IC PART #	Maximum ESR (Ω) 120 Hz 20°C	Ripple current (mA) 120Hz, 105°C	Dimensions DxL (mm)
47	450	476LMU450M2BC	7054.74	0.32	22x25
47	500	476LMU500M2BC	7054.74	0.27	22x25
68	350	686LMU350M2BC	3657.05	0.34	22x25
68	400	686LMU400M2BC	3657.05	0.51	22x25
68	450	686LMU450M2BD	4876.07	0.42	22x30
68	450	686LMU450M2CC	4876.07	0.42	25x25
68	500	686LMU500M2BD	4876.07	0.35	22x30
68	500	686LMU500M2CC	4876.07	0.35	25x25
100	200	107LMU200M2BA	2486.80	0.45	22x20
100	350	107LMU350M2BD	2486.80	0.44	22x30
100	350	107LMU350M2CC	2486.80	0.44	25x25
100	400	107LMU400M2BD	2486.80	0.64	22x30
100	400	107LMU400M2BE	2486.80	0.52	22x35
100	400	107LMU400M2CC	2486.80	0.67	25x25
100	400	107LMU400M2CD	2486.80	0.52	25x30
100	400	107LMU400M2DC	2486.80	0.54	30x25
100	450	107LMU450M2BF	3315.73	0.58	22x40
100	450	107LMU450M2CD	3315.73	0.55	25x30
100	450	107LMU450M2DC	3315.73	0.57	30x25
100	500	107LMU500M2BF	3315.73	0.47	22x40
100	500	107LMU500M2CE	3315.73	0.48	25x35
100	500	107LMU500M2DD	3315.73	0.5	30x30
150	250	157LMU250M2BC	1657.86	0.7	22x25
150	350	157LMU350M2BE	1657.86	0.66	22x35
150	350	157LMU350M2CD	1657.86	0.83	25x30
150	350	157LMU350M2DC	1657.86	0.83	30x25
150	400	157LMU400M2BF	1657.86	0.82	22x40
150	400	157LMU400M2CE	1657.86	0.84	25x35
150	400	157LMU400M2DC	1657.86	0.84	30x25
150	450	157LMU450M2CF	2210.49	0.75	25x40
150	450	157LMU450M2DD	2210.49	0.74	30x30
150	450	157LMU450M2EC	2210.49	0.75	35x25
150	500	157LMU500M2CG	2210.49	0.66	25x45
150	500	157LMU500M2DF	2210.49	0.68	30x40
150	500	157LMU500M2ED	2210.49	0.68	35x30
220	200	227LMU200M2BC	1130.36	0.82	22x25
220	250	227LMU250M2BD	1130.36	0.9	22x30
220	250	227LMU250M2CC	1130.36	0.9	25x25
220	350	227LMU350M2BH	1130.36	1.05	22x50
220	350	227LMU350M2CF	1130.36	1.04	25x40
220	350	227LMU350M2DD	1130.36	0.78	30x30
220	350	227LMU350M2EC	1130.36	1.04	35x25
220	400	227LMU400M2CG	1130.36	1.07	25x45
220	400	227LMU400M2DE	1130.36	1.06	30x35
220	400	227LMU400M2ED	1130.36	1.08	35x30
220	450	227LMU450M2CH	1507.15	1.01	25x50

Cap (uF)	WVDC	IC PART #	Maximum ESR (Ω) 120 Hz 20°C	Ripple current (mA) 120Hz, 105°C	Dimensions DxL (mm)
220	450	227LMU450M2ED	1507.15	0.98	35x30
220	450	227LMU450M2FC	1507.15	0.98	40x25
220	500	227LMU500M2DG	1507.15	0.88	30x45
220	500	227LMU500M2EF	1507.15	0.92	35x40
330	160	337LMU160M2BC	753.57	1	22x25
330	200	337LMU200M2CC	753.57	1.1	25x25
330	250	337LMU250M2BE	753.57	1.19	22x35
330	250	337LMU250M2BF	753.57	1.2	22x40
330	250	337LMU250M2CD	753.57	1.2	25x30
330	250	337LMU250M2DC	753.57	1.2	30x25
330	350	337LMU350M2CH	753.57	1.23	25x50
330	350	337LMU350M2DF	753.57	1.34	30x40
330	350	337LMU350M2ED	753.57	1.33	35x30
330	350	337LMU350M2EE	753.57	1.11	35x35
330	350	337LMU350M2FD	753.57	1.12	40x30
330	400	337LMU400M2DG	753.57	1.39	30x45
330	400	337LMU400M2EE	753.57	1.35	35x35
330	400	337LMU400M2EF	753.57	1.28	35x40
330	400	337LMU400M2FD	753.57	1.21	40x30
330	450	337LMU450M2DH	1004.77	1.37	30x50
330	450	337LMU450M2EF	1004.77	1.35	35x40
330	450	337LMU450M2FE	1004.77	1.37	40x35
330	500	337LMU500M2EH	1004.77	1.23	35x50
470	160	477LMU160M2BE	529.11	1.3	22x35
470	160	477LMU160M2CC	529.11	1.3	25x25
470	200	477LMU200M2BF	529.11	1.4	22x40
470	200	477LMU200M2CD	529.11	1.4	25x30
470	200	477LMU200M2CE	529.11	1.47	25x35
470	200	477LMU200M2DC	529.11	1.5	30x25
470	250	477LMU250M2BH	529.11	1.66	22x50
470	250	477LMU250M2CF	529.11	1.4	25x40
470	250	477LMU250M2DD	529.11	1.4	30x30
470	250	477LMU250M2DE	529.11	1.86	30x35
470	250	477LMU250M2EC	529.11	1.4	35x25
470	350	477LMU350M2EF	529.11	1.69	35x40
470	350	477LMU350M2FE	529.11	1.41	40x35
470	400	477LMU400M2EG	529.11	1.74	35x45
470	400	477LMU400M2EH	529.11	1.67	35x50
470	450	477LMU450M2EG	705.47	1.76	35x45
470	450	477LMU450M2FF	705.47	1.71	40x40
560	200	567LMU200M2BG	444.07	1.75	22x45
560	200	567LMU200M2CE	444.07	1.68	25x35
560	200	567LMU200M2CF	444.07	1.67	25x40
560	250	567LMU250M2CG	444.07	1.85	25x45
560	250	567LMU250M2DE	444.07	1.85	30x35
560	250	567LMU250M2EC	444.07	1.78	35x25

Additional lead styles available. See last page.



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Cap (uF)	WVDC	IC PART #	Maximum ESR (Ω) 120 Hz 20°C	Ripple current (A) 120Hz, 105°C	Dimensions DxL (mm)
560	400	567LMU400M2EH	444.07	2.36	35x50
680	100	687LMU100M2CC	487.61	0.95	25x25
680	160	687LMU160M2CE	365.71	1.7	25x35
680	160	687LMU160M2DC	365.71	1.7	30x25
680	200	687LMU200M2BH	365.71	2.02	22x50
680	200	687LMU200M2CF	365.71	1.7	25x40
680	200	687LMU200M2DD	365.71	1.94	30x30
680	200	687LMU200M2DE	365.71	1.88	30x35
680	250	687LMU250M2CH	365.71	2.14	25x50
680	250	687LMU250M2DE	365.71	2.04	30x35
680	250	687LMU250M2DF	365.71	1.9	30x40
680	250	687LMU250M2DG	365.71	2.25	30x45
680	250	687LMU250M2ED	365.71	2.1	35x30
820	200	827LMU200M2CG	303.27	2.27	25x45
820	200	827LMU200M2DE	303.27	2.26	30x35
820	200	827LMU200M2DF	303.27	2.08	30x40
820	200	827LMU200M2ED	303.27	2.33	35x30
820	250	827LMU250M2DG	303.27	2.49	30x45
820	250	827LMU250M2EE	303.27	2.45	35x35
820	250	827LMU250M2EF	303.27	2.33	35x40
1000	80	108LMU080M2BD	497.36	1.26	22x30
1000	80	108LMU080M2CC	497.36	1.21	25x25
1000	100	108LMU100M2BF	331.57	1.76	22x40
1000	100	108LMU100M2CD	331.57	1.71	25x30
1000	100	108LMU100M2DC	331.57	1.65	30x25
1000	160	108LMU160M2CG	248.68	2.1	25x45
1000	160	108LMU160M2DE	248.68	2.1	30x35
1000	160	108LMU160M2ED	248.68	2.1	35x30
1000	200	108LMU200M2CH	248.68	2.63	25x50
1000	200	108LMU200M2DF	248.68	2.64	30x40
1000	200	108LMU200M2DG	248.68	2.35	30x45
1000	200	108LMU200M2EE	248.68	2.28	35x35
1000	250	108LMU250M2EF	248.68	2.3	35x40
1000	250	108LMU250M2EG	248.68	2.48	35x45
1200	200	128LMU200M2DG	207.23	3.04	30x45
1200	200	128LMU200M2DH	207.23	2.65	30x50
1200	200	128LMU200M2EE	207.23	3	35x35
1200	200	128LMU200M2EG	207.23	2.58	35x45
1500	63	158LMU063M2CC	331.57	1.4	25x25
1500	80	158LMU080M2DC	331.57	1.5	30x25
1500	100	158LMU100M2EC	221.05	2.05	35x25
1500	160	158LMU160M2EE	165.79	2.84	35x35
1500	200	158LMU200M2EG	165.79	2.8	35x45
1500	200	158LMU200M2EH	165.79	3.18	35x50

Cap (uF)	WVDC	IC PART #	Maximum ESR (Ω) 120 Hz 20°C	Ripple current (A) 120Hz, 105°C	Dimensions DxL (mm)
1800	200	188LMU200M2EH	138.16	3.3	35x50
2200	50	228LMU050M2BD	226.07	1.4	22x30
2200	50	228LMU050M2CC	226.07	1.35	25x25
2200	63	228LMU063M2CD	226.07	1.76	25x30
2200	63	228LMU063M2DC	226.07	1.7	30x25
2200	80	228LMU080M2DE	226.07	2.1	30x35
2200	80	228LMU080M2EC	226.07	2.03	35x25
2200	100	228LMU100M2DF	150.71	2.85	30x40
2200	100	228LMU100M2EE	150.71	2.78	35x35
2200	100	228LMU100M2FD	150.71	2.7	40x30
2200	180	228LMU180M2EH	113.04	3.6	35x50
3300	35	338LMU035M2BD	175.83	1.55	22x30
3300	35	338LMU035M2CC	175.83	1.5	25x25
3300	50	338LMU050M2BE	150.71	2.11	22x35
3300	50	338LMU050M2CD	150.71	2.06	25x30
3300	50	338LMU050M2DC	150.71	2	30x25
3300	63	338LMU063M2DD	150.71	2.22	30x30
3300	63	338LMU063M2EC	150.71	2.15	35x25
3300	80	338LMU080M2EE	150.71	2.58	35x35
3300	100	338LMU100M2EG	100.48	2.98	35x45
3300	100	338LMU100M2FE	100.48	2.9	40x35
4700	25	478LMU025M2BD	158.73	1.6	22x30
4700	35	478LMU035M2BE	123.46	1.88	22x35
4700	35	478LMU035M2CC	123.46	1.83	25x25
4700	50	478LMU050M2BH	105.82	2.5	22x50
4700	50	478LMU050M2CF	105.82	2.45	25x40
4700	50	478LMU050M2DD	105.82	2.39	30x30
4700	50	478LMU050M2EC	105.82	2.32	35x25
4700	63	478LMU063M2DF	105.82	2.94	30x40
4700	63	478LMU063M2ED	105.82	2.87	35x30
4700	80	478LMU080M2EG	105.82	3.38	35x45
6800	16	688LMU016M2BC	121.90	1.56	22x25
6800	25	688LMU025M2BE	109.71	2.14	22x35
6800	25	688LMU025M2CC	109.71	2.09	25x25
6800	35	688LMU035M2BG	85.33	2.53	22x45
6800	35	688LMU035M2CE	85.33	2.48	25x35
6800	35	688LMU035M2DC	85.33	2.42	30x25
6800	50	688LMU050M2DF	73.14	3.26	30x40
6800	50	688LMU050M2ED	73.14	3.19	35x30
6800	50	688LMU050M2FC	73.14	2.78	40x25
6800	63	688LMU063M2EF	73.14	3.68	35x40
10000	16	109LMU016M2BE	82.89	2.19	22x35
10000	16	109LMU016M2CC	82.89	1.94	25x25
10000	25	109LMU025M2CF	74.60	2.83	25x40

Additional lead styles available. See last page.



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Cap (uF)	WVDC	IC PART #	Maximum ESR (Ω) 120 Hz 20°C	Ripple current (A) 120Hz, 105°C	Dimensions DxL (mm)
10000	25	109LMU025M2EC	74.60	2.65	35x25
10000	35	109LMU035M2CG	58.03	3.4	25x45
10000	35	109LMU035M2DE	58.03	3.34	30x35
10000	35	109LMU035M2ED	58.03	3.27	35x30
10000	50	109LMU050M2DH	49.74	4.05	30x50
10000	50	109LMU050M2EF	49.74	3.98	35x40
10000	50	109LMU050M2FE	49.74	3.9	40x35
10000	63	109LMU063M2EH	49.74	4.48	35x50
10000	63	109LMU063M2FF	49.74	4.4	40x40
15000	10	159LMU010M2CC	77.37	1.92	25x25
15000	16	159LMU016M2CE	55.26	2.8	25x35
15000	16	159LMU016M2DD	55.26	2.8	30x30
15000	16	159LMU016M2EC	55.26	2.67	35x25
15000	25	159LMU025M2DF	49.74	3.13	30x40
15000	25	159LMU025M2ED	49.74	3.06	35x30

Cap (uF)	WVDC	IC PART #	Maximum ESR (Ω) 120 Hz 20°C	Ripple current (A) 120Hz, 105°C	Dimensions DxL (mm)
15000	35	159LMU035M2DG	38.68	4	30x45
15000	35	159LMU035M2EE	38.68	3.93	35x35
22000	10	229LMU010M2CE	52.75	2.46	25x35
22000	16	229LMU016M2DE	37.68	3.48	30x35
22000	16	229LMU016M2ED	37.68	3.35	35x30
22000	25	229LMU025M2EE	33.91	4.07	35x35
22000	35	229LMU035M2EG	26.38	5.12	35x45
33000	10	339LMU010M2DE	35.17	3.05	30x35
33000	16	339LMU016M2EE	25.12	4.06	35x35
33000	25	339LMU025M2EH	22.61	4.78	35x50
39000	10	399LMU010M2ED	29.76	3.09	35x30
39000	16	399LMU016M2EF	21.25	4.08	35x40
47000	10	479LMU010M2EE	24.69	3.51	35x35
47000	16	479LMU016M2EG	17.64	4.45	35x45



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Lead style options

Code 2 (Standard) Diameter 20 to 40 mm	Code Z Diameter 20 to 40 mm												
Code P Diameter 22 to 35 mm	Code D Diameter 30 to 40 mm												
Code 9 Diameter 25 to 35 mm	Code T Diameter 25 to 35 mm												
Code 4 Diameter 35 to 45 mm	Code 4S (straight leads) Diameter 35 to 45 mm												
Code 5 Diameter 40 to 50 mm	Code G <table><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></table> Diameter 35 to 76 mm	D	35	40	50	63	76	P	14	14	18	25	25
D	35	40	50	63	76								
P	14	14	18	25	25								