

LBA

85°C Snap-Mount Aluminum Electrolytic Capacitors



Applications

- Filtering
- Switching power supplies

Features

- High Voltage
- RoHS Compliant

Specifications

Operating Temperature Range		-40°C to +85°C													
Capacitance Tolerance		±20% at 120 Hz, 20°C													
Surge voltage	WVDC	16	25	35	50	63	80	100	160	200	250	350	400	450	500
	SVDC	20	32	44	63	79	100	120	200	250	300	400	450	500	550
Dissipation Factor (120 Hz)	WVDC	16	25	35	50	63	80	100	160	200	250	350	400	450	500
	tan δ	.5	.4	.25	.2	.15	.15	.15	.1*	.1*	.1*	.15	.15	.15	.15
		*Note: .15 for 35 mm Diameter													
Leakage current @20°C, Rated WVDC applied		Time		5 Minutes											
				.02CV or 2000uA, whichever is less											
Impedance ratio (120 Hz)	WVDC	16	25	35	50	63	80	100	160	200	250	350	400	450	500
	-25°C/+20°C	4	3	3	2	2	2	2	6	6	6	8	8	8	8
	-40°C/+20°C	15	10	8	6	6	5	5	9	9	9	12	12	12	12
Load Life		2000 hours with rated voltage applied at 85°C with full rated ripple current applied													
		Capacitance change		<20% of initial measured value											
		Dissipation factor		<175% of maximum specified value											
		Leakage current		<100% of maximum specified value											
Shelf Life		1000 hours at 85°C with no voltage applied													
		Capacitance change		<20% initial measured value											
		Dissipation factor		<175% of maximum specified value											
		Insulation resistance		<100% of maximum specified value											
Ripple Current Multipliers		Frequency (Hz)					Temperature (°C)								
	WVDC	60	120	400	1k	10k	40	60	70	85					
	≤100	0.8	1.0	1.1	1.2	1.2	1.8	1.4	1.2	1.0					
	>160	0.8	1.0	1.1	1.3	1.4	1.8	1.4	1.2	1.0					



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Cap (uF)	WVDC	IC PART #	Maximum ESR (Ω) 120 Hz 20°C	Ripple current (mA) 120Hz, 85°C	Dimensions DxL (mm)
47	450	476LBA450M2BC	5.294	0.46	22x25
68	450	686LBA450M2CC	3.659	0.6	22x25
100	350	107LBA350M2BD	3.317	0.65	22x30
100	350	107LBA350M2CC	3.317	0.63	25x25
100	400	107LBA400M2BD	3.317	0.68	22x30
100	450	107LBA450M2BE	3.317	0.77	22x35
100	500	107LBA500M2BF	2.488	0.85	22x40
100	500	107LBA500M2CD	2.488	0.81	25x30
100	500	107LBA500M2DC	2.488	0.84	30x25
150	250	157LBA250M2CA	1.106	0.85	25x20
150	350	157LBA350M2CD	1.659	0.97	25x30
150	400	157LBA400M2BF	1.659	0.94	22x40
150	400	157LBA400M2CD	1.659	0.89	25x30
150	450	157LBA450M2CF	1.659	1.08	25x40
150	500	157LBA500M2BH	1.659	1.15	22x50
150	500	157LBA500M2CF	1.659	1.12	25x40
150	500	157LBA500M2DE	1.659	1.18	30x35
150	500	157LBA500M2ED	1.659	1.22	35x30
220	160	227LBA160M2BA	0.754	1	22x20
220	200	227LBA200M2BC	0.754	1.14	22x25
220	200	227LBA200M2CA	0.754	1.1	25x20
220	250	227LBA250M2BD	0.754	1.2	22x30
220	250	227LBA250M2CC	0.754	1.15	25x25
220	250	227LBA250M2DA	0.754	1.1	30x20
220	350	227LBA350M2DD	1.131	1.29	30x30
220	400	227LBA400M2BH	1.131	1.26	22x50
220	400	227LBA400M2CF	1.131	1.22	25x40
220	450	227LBA450M2DF	1.131	1.44	30x40
220	500	227LBA500M2CH	1.131	1.5	25x50
220	500	227LBA500M2DG	1.131	1.59	30x45
220	500	227LBA500M2EE	1.131	1.57	35x35
330	160	337LBA160M2BC	0.503	1.2	22x25
330	200	337LBA200M2BD	0.503	1.48	22x30
330	200	337LBA200M2CC	0.503	1.48	25x25
330	250	337LBA250M2BF	0.503	1.72	22x40
330	250	337LBA250M2CD	0.503	1.67	25x30
330	250	337LBA250M2DC	0.503	1.61	30x25
330	350	337LBA350M2DF	0.754	1.72	30x40
330	350	337LBA350M2ED	0.754	1.88	35x30
330	400	337LBA400M2DG	0.754	1.74	30x45
330	450	337LBA450M2EF	0.754	1.92	35x40
330	500	337LBA500M2EG	0.754	2.13	35x45
470	160	477LBA160M2CC	0.353	1.52	25x25
470	200	477LBA200M2BF	0.353	2.02	22x40
470	200	477LBA200M2CD	0.353	1.91	25x30

Cap (uF)	WVDC	IC PART #	Maximum ESR (Ω) 120 Hz 20°C	Ripple current (mA) 120Hz, 85°C	Dimensions DxL (mm)
470	250	477LBA250M2BH	0.353	2.08	22x50
470	250	477LBA250M2CF	0.353	2.03	25x40
470	250	477LBA250M2DD	0.353	1.97	30x30
470	350	477LBA350M2EF	0.529	2.3	35x40
470	400	477LBA400M2EG	0.529	2.23	35x45
470	400	477LBA400M2FE	0.529	2.16	40x35
470	450	477LBA450M2EH	0.529	2.5	35x50
560	200	567LBA200M2CE	0.296	2.22	25x35
560	250	567LBA250M2DE	0.296	2.3	30x35
680	100	687LBA100M2BC	0.366	1.85	22x25
680	160	687LBA160M2DC	0.244	2.1	30x25
680	200	687LBA200M2CF	0.244	2.43	25x40
680	200	687LBA200M2EC	0.366	2.3	35x25
680	250	687LBA250M2DE	0.244	2.4	30x35
680	250	687LBA250M2DF	0.244	2.55	30x40
680	250	687LBA250M2ED	0.366	2.48	35x30
820	200	827LBA200M2DF	0.202	2.85	30x40
820	250	827LBA250M2DG	0.202	2.9	30x45
820	250	827LBA250M2EE	0.303	2.83	35x35
1000	80	108LBA080M2BC	0.249	1.65	22x25
1000	100	108LBA100M2BE	0.249	2.08	22x35
1000	100	108LBA100M2CC	0.249	2.03	25x25
1000	160	108LBA160M2DE	0.166	2.77	30x35
1000	160	108LBA160M2DD	0.166	2.8	30x30
1000	160	108LBA160M2EC	0.249	2.8	35x25
1000	200	108LBA200M2DG	0.166	3.42	30x45
1000	200	108LBA200M2EE	0.249	3.35	35x35
1000	200	108LBA200M2ED	0.249	3.42	35x30
1000	250	108LBA250M2DH	0.166	3.65	30x50
1000	250	108LBA250M2DG	0.166	3	30x45
1000	250	108LBA250M2EF	0.249	3.58	35x40
1200	160	128LBA160M2DE	0.138	3.2	30x35
1200	160	128LBA160M2ED	0.207	3.2	35x30
1200	200	128LBA200M2DH	0.138	3.4	30x50
1200	200	128LBA200M2DG	0.138	3.4	30x45
1200	200	128LBA200M2EF	0.207	3.47	35x40
1200	200	128LBA200M2EE	0.207	3.54	35x35
1200	250	128LBA250M2EG	0.207	3.5	35x45
1500	63	158LBA063M2BC	0.166	2	22x25
1500	80	158LBA080M2CC	0.166	2.15	25x25
1500	100	158LBA100M2CE	0.166	2.76	25x35
1500	160	158LBA160M2EE	0.166	3.48	35x35
1500	200	158LBA200M2EF	0.166	3.8	35x40
1500	200	158LBA200M2EG	0.166	4.1	35x45
1500	250	158LBA250M2EH	0.166	4	35x50

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, 85°C	Dimensions DxL (mm)
1800	200	188LBA200M2EH	0.138	4.38	35x50
1800	200	188LBA200M2EG	0.138	4.2	35x45
2200	35	228LBA035M2CA	0.188	1.7	25x20
2200	50	228LBA050M2BC	0.151	2	22x25
2200	63	228LBA063M2CC	0.113	2.3	25x25
2200	80	228LBA080M2BF	0.113	2.71	22x40
2200	80	228LBA080M2CE	0.113	2.66	25x35
2200	100	228LBA100M2CG	0.113	3.41	25x45
2200	100	228LBA100M2DE	0.113	3.35	30x35
2200	100	228LBA100M2ED	0.113	3.28	35x30
2200	160	228LBA160M2EH	0.113	4.97	35x50
2200	160	228LBA160M4FF	0.113	4.57	40x40
2200	200	228LBA200M2EH	0.113	4.7	35x50
3300	35	338LBA035M2BC	0.126	2.2	22x25
3300	50	338LBA050M2BC	0.101	1.8	22x25
3300	50	338LBA050M2BD	0.101	2.4	22x30
3300	50	338LBA050M2CC	0.101	2.35	25x25
3300	63	338LBA063M2CE	0.075	2.81	25x35
3300	80	338LBA080M2CG	0.075	3.41	25x45
3300	80	338LBA080M2ED	0.075	3.28	35x30
3300	100	338LBA100M2EE	0.075	3.58	35x35
3300	100	338LBA100M2FD	0.075	3.5	40x30
4700	25	478LBA025M2BC	0.106	2.2	22x25
4700	35	478LBA035M2BD	0.088	2.4	22x30
4700	35	478LBA035M2CC	0.088	2.35	25x25
4700	50	478LBA050M2BF	0.071	2.91	22x40
4700	50	478LBA050M2CE	0.071	2.86	25x35
4700	50	478LBA050M2DC	0.071	2.8	30x25
4700	63	478LBA063M2CG	0.053	3.25	25x45
4700	63	478LBA063M2CE	0.053	3.59	25x35
4700	63	478LBA063M2DD	0.053	3.2	30x30
4700	63	478LBA063M2EC	0.053	3.13	35x25
4700	80	478LBA080M2BE	0.053	3.5	22x35
4700	80	478LBA080M2ED	0.053	3.3	35x30
4700	80	478LBA080M2EE	0.053	3.73	35x35
4700	100	478LBA100M2EG	0.053	4.3	35x45
4700	100	478LBA100M2FE	0.053	4.22	40x35
5600	25	568LBA025M2BD	0.089	2.4	22x30
6800	25	688LBA025M2BE	0.073	2.6	22x35
6800	25	688LBA025M2CC	0.073	2.55	25x25
6800	35	688LBA035M2BF	0.061	3.06	22x40

Cap (uF)	WVDC	IC PART #	Maximum ESR (Ω) 120 Hz 20°C	Ripple current (A) 120Hz, 85°C	Dimensions DxL (mm)
6800	35	688LBA035M2BE	0.061	2.9	22x35
6800	35	688LBA035M2CD	0.061	3.01	25x30
6800	35	688LBA035M2DC	0.061	2.95	30x25
6800	50	688LBA050M2CG	0.061	3.86	25x45
6800	50	688LBA050M2ED	0.061	3.73	35x30
6800	63	688LBA063M2EE	0.037	4.15	35x35
6800	80	688LBA080M2EG	0.037	4.8	35x45
8200	16	828LBA016M2BC	0.081	2.37	22x25
8200	25	828LBA025M2BE	0.061	3.31	22x35
8200	35	828LBA035M2CE	0.051	3.45	25x35
8200	50	828LBA050M2DF	0.040	4.35	30x40
10000	16	109LBA016M2BD	0.066	2.84	22x30
10000	16	109LBA016M2CC	0.066	2.76	25x25
10000	25	109LBA025M2BG	0.050	3.4	22x45
10000	25	109LBA025M2CE	0.050	3.32	25x35
10000	25	109LBA025M2DC	0.050	3.31	30x25
10000	35	109LBA035M2CF	0.041	4.06	25x40
10000	35	109LBA035M2DD	0.041	4	30x30
10000	35	109LBA035M2EC	0.041	3.93	35x25
10000	50	109LBA050M2EE	0.033	4.7	35x35
10000	63	109LBA063M2EG	0.025	5.2	35x45
15000	10	159LBA010M2CC	0.055	2.76	25x25
15000	16	159LBA016M2BF	0.044	3.94	22x40
15000	16	159LBA016M2DC	0.044	3.51	30x25
15000	25	159LBA025M2CG	0.033	4.5	25x45
15000	25	159LBA025M2ED	0.033	4.39	35x30
15000	35	159LBA035M2DF	0.028	5.07	30x40
15000	35	159LBA035M2EE	0.028	5	35x35
15000	50	159LBA050M2EG	0.022	5.9	35x45
22000	10	229LBA010M2DC	0.038	3.49	30x25
22000	16	229LBA016M2BH	0.030	5.23	22x50
22000	16	229LBA016M2DD	0.030	4.45	30x30
22000	16	229LBA016M2EC	0.030	4.13	35x25
22000	25	229LBA025M2EE	0.023	5.73	35x35
22000	25	229LBA025M2FD	0.023	5.65	40x30
22000	35	229LBA035M2EG	0.019	6.25	35x45
33000	16	339LBA016M2DF	0.020	5.8	30x40
33000	16	339LBA016M2ED	0.020	5.15	35x30
33000	25	339LBA025M2EH	0.015	7.2	35x50
47000	16	479LBA016M2DH	0.014	6.78	30x50
47000	16	479LBA016M2EF	0.014	6.71	35x40

Additional lead styles available. See last page.



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Lead style options

