SHENZHEN CAPSUN ELECTRONIC CO.,LTD
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LB series

STANDARD

- Endurance with ripple current:2000hours at 85℃
- RoHs compliant
- Suitable for hydraulic pipeline equipment, refrigeration and air conditioning equipment, solar photovoltaic Solar thermal, shore with variable frequency power supply, UPS uninterruptible power supply, inverter

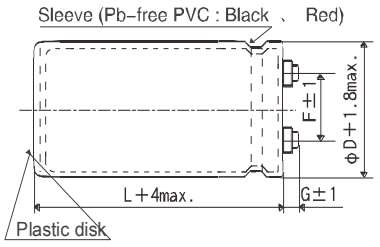
Standard | Ripple Curren | RoHS

◆SPECIFIC ATIONS

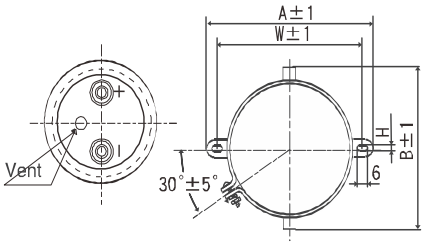
items	characteristics
Category temperature Range	-40~+85℃（10-600$_{VDC}$）
Rated voltage Range	10~600$_{VDC}$
Capacitance Tolerance	± 20%（M） 20℃/120HZ
Leakage Current	I=0.02CV or 5mA,whichever is smaller I: Where, I : Max. leakage current（μA）、C: Nominal capacitance（μF）、Rated voltage (V)at 20℃after 5 minutes)
Dissipation Factor（tanδ）	Shall not exceed the values shown in the standard ratings 20℃/120HZ
Low Temperature characteristics	Capacitance change C（-25℃）/C（+20℃）≥0.7 20℃/120HZ
Insulation Resistance	When measured between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case by using an insulation resistance meter of 500Vdc, the insulation resistance shall not be less than 100mΩ
Insulation Withstanding Voltage	When a voltage of 2,000Vac is applied for 1 minute between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.。
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 2,000 hours at 85℃。
	Capacitance change ≤±20% of the initial value
	D.F. (tanδ) ≤200% of the initial specified value
	Leakage current ≤The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 500 hours at 85℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4
	Capacitance change ≤±20% of the initial value
	D.F. (tanδ) ≤150% of the initial specified value
	Leakage current ≤The initial specified value

◆ DIMENSIONS[mm]

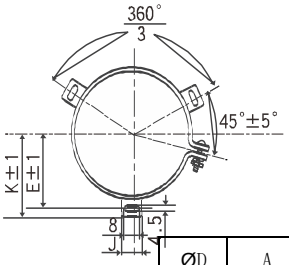
● Terminal Code : M5



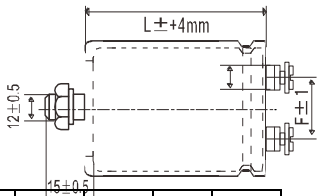
● Mounting Clamp Code : B



● Mounting Clamp Code : C



● NO Mounting Clamp Code : N



ØD	A	B	W	H	F
35	58.0	44.0	48.0	3.5	12.7
50	78.0	64.0	68.0	4.5	22.4
63.5	90.0	76.0	80.0	4.5	28.0
76.2	104.5	90.0	93.5	4.5	31.5

Ø35~ Ø63.5：G=6

Ø76.2~ Ø89：G=5

Screw specifications

~ Plus hexagon-headed screw M5*0.8*10 M6*1.0*10 Ø100

Maximum screw tightening torque 3.23N.m The screw and the mounting.

clamp are separately supplied and not attached to the product

◆PART NUMBERING SYSTEM

12	345	67	8	9 10 11	12	13 14 15
LB	□□□	M5	□	□□□	M	□□□

- 13 14 15 — Size code
- 12 — Capacitance tolerance code
- 9 10 11 — Capacitance code（ex 6800μF→682，39000μF→393
- 8 — Mounting clamp code（N,B,C）
- 6 7 — Terminal code
- 3 4 5 — Voltage code（ex10V→100，100V→101
- 1 2 — Series code

Please refer to "Product code guide (screw-mount terminal type)"

ØD	E	K	F	J
50	32.5	37.0	14.0	22.4
63.5	38.1	43.5	28.0	14.0
76.2	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0
100	56.5	63.4	41.5	18.0

SRANDRAD RATINGS

W.V [Vdc]	cap [μF]	Case size D x L [mm]	tanδ 120HZ,20℃ [mΩ]	Rated ripple current(Ams/85℃,120HZ)	Part NO.
10	39000	35*50	0.6	4.7	LB100M5B393MA50
	82000	35*80	0.6	7.4	LB100M5B823MA80
	100000	35*100	0.7	8.0	LB100M5B104MAA0
	120000	35*120	0.7	9.4	LB100M5B124MAC0
	150000	50*80	0.9	9.8	LB100M5C154MC80
	220000	50*100	1.0	12.1	LB100M5C224MCA0
	270000	50*120	1.2	13.6	LB100M5C274MCC0
	390000	63.5*100	1.5	15.3	LB100M5C394MDA0
	470000	63.5*120	2.0	16.0	LB100M5C474MDC0
	560000	76.2*100	2.5	17.3	LB100M5C564MEA0
	680000	76.2*120	3.0	18.7	LB100M5C684MEC0
16	27000	35*50	0.45	4.2	LB160M5B273MA50
	56000	35*80	0.6	6.5	LB160M5B563MA80
	82000	35*100	0.7	8	LB160M5B823MAA0
	100000	35*120	0.7	9.6	LB160M5B104MAC0
	120000	50*80	0.8	9.6	LB160M5C124MC80
	150000	50*100	0.9	11.2	LB160M5C154MCA0
	220000	50*120	1	14.2	LB160M5C224MCC0
	270000	63.5*100	1.2	15.3	LB160M5C274MDA0
	330000	63.5*120	1.3	17.1	LB160M5C334MDC0
	390000	76.2*100	1.6	18.0	LB160M5C394MEA0
	470000	76.2*120	1.8	19.3	LB160M5C474MEC0
	560000	76.2*140	2	20.7	LB160M5C564MEE0
25	18000	35*50	0.35	4.0	LB250M5B183MA50
	39000	35*80	0.4	6.2	LB250M5B393MA80
	47000	35*100	0.4	7.4	LB250M5B473MAA0
	56000	35*120	0.45	8.3	LB250M5B563MAC0
	82000	50*80	0.5	9.7	LB250M5C823MC80
	100000	50*100	0.6	10.8	LB250M5C104MCA0
	120000	50*120	0.6	12.8	LB250M5C124MCC0
	180000	63.5*100	0.75	14.7	LB250M5C184MDA0
	220000	63.5*120	0.8	16.8	LB250M5C224MDC0
	270000	76.2*100	0.9	18.3	LB250M5C274MEA0
	330000	76.2*120	1	20.7	LB250M5C334MEC0
	390000	76.2*140	1.2	22.1	LB250M5C394MEE0
	560000	89*140	1.5	25.8	LB250M5C564MFE0
35	15000	35*50	0.3	3.9	LB350M5B153MA50
	33000	35*80	0.4	6.0	LB350M5B333MA80
	39000	35*100	0.4	7.0	LB350M5B393MAA0
	47000	35*120	0.45	8.0	LB350M5B473MAC0
	68000	50*80	0.5	9.0	LB350M5C683MC80
	82000	50*100	0.55	10.3	LB350M5C823MCA0
	120000	50*120	0.6	12.8	LB350M5C124MCC0
35	150000	63.5*100	0.7	14.0	LB350M5C154MDA0
	18000	63.5*120	0.7	16.6	LB350M5C184MDC0
	220000	76.2*100	0.75	17.3	LB350M5C224MEA0
	270000	76.2*120	0.8	19.8	LB350M5C274MEC0
	330000	76.2*140	0.9	22.5	LB350M5C334MEE0
	470000	89*140	1.0	28.3	LB350M5C474MFE0
50	10000	35*50	0.25	4.1	LB500M5B103MA50
	18000	35*80	0.25	5.2	LB500M5B183MA80
	22000	35*100	0.3	5.9	LB500M5B223MAA0
	27000	35*120	0.35	6.6	LB500M5B273MAC0
	39000	50*80	0.4	7.4	LB500M5C393MC80
	56000	50*100	0.4	9.8	LB500M5C563MCA0
	68000	50*120	0.45	11.1	LB500M5C683MCC0
	82000	63.5*100	0.5	12.2	LB500M5C823MDA0
	120000	63.5*120	0.5	16.0	LB500M5C124MDC0
	150000	76.2*120	0.6	18.1	LB500M5C154MEC0
	180000	76.2*140	0.7	19.5	LB500M5C184MEE0
	270000	89*140	0.8	24.6	LB500M5C274MFE0
63	5600	35*50	0.2	3.0	LB630M5B562MA50
	10000	35*80	0.25	4.0	LB630M5B103MA80
	15000	35*100	0.25	5.3	LB630M5B153MAA0
	18000	35*120	0.25	6.2	LB630M5B183MAC0
	22000	50*80	0.3	6.5	LB630M5C223MC80
	33000	50*100	0.35	8.1	LB630M5C333MCA0
	39000	50*120	0.35	9.6	LB630M5C393MCC0
	47000	63.5*100	0.4	10.2	LB630M5C473MDA0
	68000	63.5*120	0.4	13.3	LB630M5C683MDC0
	100000	76.2*120	0.45	17.1	LB630M5C104MEC0
	120000	76.2*140	0.5	19	LB630M5C124MEE0
	150000	89*140	0.55	22	LB630M5C154MFE0
80	3300	35*50	0.15	2.5	LB800M5B332MA50
	6800	35*80	0.2	3.7	LB800M5B682MA80
	10000	35*100	0.2	4.9	LB800M5B103MAA0
	12000	35*120	0.2	5.4	LB800M5B123MAC0
	15000	50*80	0.25	6.0	LB800M5C153MC80
	22000	50*100	0.3	7.1	LB800M5C223MCA0
	27000	50*120	0.3	8.6	LB800M5C273MCC0
	33000	63.5*100	0.35	9.3	LB800M5C333MDA0
	47000	63.5*120	0.35	12.0	LB800M5C473MDC0
	68000	76.2*120	0.35	15.4	LB800M5C683MEC0
	82000	76.2*140	0.35	18.1	LB800M5C823MEE0
	100000	89*140	0.4	21.0	LB800M5C104MFE0
	150000	89*220	0.5	21.04	LB800M5C154MFN0

SRANDRAD RATINGS

W.V [Vdc]	cap [μF]	Case size D x L [mm]	tanδ 120HZ,20℃ [mΩ]	Rated ripple current (Ams/85℃,120HZ)	Part NO.
100	2200	35*50	0.1	2.5	LB101M5B222MA50
	4700	35*80	0.15	3.4	LB101M5B472MA80
	6800	35*100	0.15	4.2	LB101M5B682MAA0
	8200	35*120	0.15	5.0	LB101M5B822MAC0
	10000	50*80	0.2	5.2	LB101M5C103MC80
	18000	50*120	0.2	8.1	LB101M5C183MCC0
	22000	63.5*100	0.25	8.6	LB101M5C223MDA0
	27000	63.5*120	0.25	10.3	LB101M5C273MDC0
	33000	76.2*100	0.25	11.1	LB101M5C333MEA0
	39000	76.2*120	0.25	12.4	LB101M5C393MEC0
	47000	76.2*140	0.25	14.3	LB101M5C473MEE0
	68000	89*140	0.3	18.0	LB101M5C683MFE0
160	3300	35*120	0.25	14.0	LB161M5B332MAC0
	3900	50*75	0.25	14.4	LB161M5C392MC75
	4700	50*75	0.25	15.8	LB161M5C472MC75
	5600	50*96	0.25	19.0	LB161M5C562MC96
	6800	50*96	0.25	21.0	LB161M5C682MC96
	8200	50*115	0.25	24.7	LB161M5C822MCB5
	10000	63.5*96	0.25	28.0	LB161M5C103MD96
	12000	63.5*96	0.25	30.6	LB161M5C123MD96
	15000	63.5*130	0.25	38.6	LB161M5C153MDD0
	18000	63.5*130	0.25	42.2	LB161M5C183MDD0
	22000	76.2*130	0.25	49.4	LB161M5C223MED0
	27000	76.2*130	0.25	54.7	LB161M5C273MED0
	33000	89*130	0.25	64.2	LB161M5C333MFD0
	39000	89*155	0.25	75.3	LB161M5C393MFF5
200	2200	35*100	0.25	10.6	LB201M5B222MAA0
	2700	35*120	0.25	12.7	LB201M5B272MAC0
	3300	50*75	0.25	13.3	LB201M5C332MC75
	3900	50*75	0.25	14.4	LB201M5C392MC75
	4700	50*96	0.25	17.4	LB201M5C472MC96
	5600	50*115	0.25	20.4	LB201M5C562MCB5
	6800	50*130	0.25	23.7	LB201M5C682MCD0
	8200	63.5*96	0.25	25.4	LB201M5C822MD96
	10000	63.5*96	0.25	28.0	LB201M5C103MD96
	12000	76.2*96	0.25	32.6	LB201M5C123ME96
	15000	76.2*96	0.25	39.0	LB201M5C153ME96
	18000	76.2*130	0.25	44.6	LB201M5C183MED0
	22000	76.2*155	0.25	53.0	LB201M5C223MEF5
	27000	89*130	0.25	58.2	LB201M5C273MFD0
	33000	89*155	0.25	69.0	LB201M5C333MFF5
	36000	89*189	0.25	76.0	LB201M5C363MFK0
	39000	89*220	0.25	82.0	LB201M5C393MFN0
250	1500	35*100	0.25	8.7	LB251M5B152MAA0
	1800	35*100	0.25	9.5	LB251M5B182MAA0
	2200	50*75	0.25	10.8	LB251M5C222MC75
	2700	50*75	0.25	12.0	LB251M5C272MC75
	3300	50*96	0.25	14.6	LB251M5C332MC96
	3900	50*115	0.25	17.0	LB251M5C392MCB5
	4700	63.5*96	0.25	19.2	LB251M5C472MD96
	5600	63.5*96	0.25	21.0	LB251M5C562MD96
	6800	63.5*115	0.25	24.7	LB251MC682MDB5
	8200	63.5*115	0.25	27.1	LB251M5C822MDB5
	10000	63.5*130	0.25	31.5	LB251M5C103MDD0
	12000	76.2*115	0.25	34.8	LB251M5C123MEB5
	15000	76.2*130	0.25	40.8	LB251M5C153MED0
	18000	76.2*155	0.25	47.8	LB251M5C183MEF5
	20000	89*155	0.25	56.5	LB251M5C223MFF5
350	390	35*50	0.2	4.5	LB351M5B391MA50
	470	35*85	0.2	5.8	LB351M5B471MA85
	560	35*85	0.2	6.4	LB351M5B561MA85
	680	35*85	0.2	7.0	LB351M5B681MA85
	820	35*100	0.2	8.3	LB351M5B821MAA0
	1000	35*100	0.2	9.2	LB351M5B102MAA0
	1200	50*75	0.2	10.3	LB351M5C122MC75
	1500	50*75	0.2	11.5	LB351M5C152MC75
	1800	50*96	0.2	13.9	LB351M5C182MC96
	2200	50*96	0.2	15.4	LB351M5C222MC96
	2700	50*130	0.2	19.3	LB351M5C272MCD0
	3300	50*130	0.2	21.4	LB351M5C332MCD0
	3900	63.5*115	0.2	24.2	LB351M5C392MDB5
	4700	63.5*130	0.2	27.9	LB351M5C472MDD0
	5600	76.2*115	0.2	30.7	LB351M5C562MEB5
	6800	76.2*130	0.2	35.4	LB351M5C682MED0
	8200	76.2*155	0.2	41.7	LB351M5C822MEF5
	10000	89*155	0.2	49.0	LB351M5C103MFF5
	12000	89*155	0.2	54.1	LB351M5C123MFF5
	15000	89*189	0.2	66.2	LB351M5C153MFK0
	18000	89*220	0.2	77.9	LB351M5C183MFN0
400	330	35*50	0.2	4.1	LB401M5B331MA50
	390	35*85	0.2	5.3	LB401M5B391MA85
	470	35*85	0.2	5.8	LB401M5B471MA85
	560	35*85	0.2	6.4	LB401M5B561MA85
	680	35*100	0.2	7.6	LB401M5B681MAA0
	820	35*100	0.2	8.3	LB401M5B821MAA0
	1000	50*75	0.2	9.4	LB401M5C102MC75

SRANDRAD RATINGS

W.V [Vdc]	cap [μF]	Case size D x L [mm]	tanδ 120HZ,20℃ [mΩ]	Rated ripple current(Ams/85℃,120HZ)	Part NO.	W.V [Vdc]	cap [μF]	Case size D x L [mm]	tanδ 120HZ,20℃ [mΩ]	Rated ripple current(Ams/85℃,120HZ)	Part NO.
400	1200	50*75	0.20	10.3	LB401M5C122MC75	500	1200	50*115	0.20	12.2	LB501M5C122MCB5
	1500	50*96	0.20	12.7	LB401M5C152MC96			63.5*96	0.20	12.5	LB501M5C122MD96
	1800	50*96	0.20	13.9	LB401M5C182MC96		1500	50*130	0.20	14.3	LB501M5C152MCD0
	2200	50*130	0.20	17.4	LB401M5C222MCD0			63.5*96	0.20	13.9	LB501M5C152MD96
	2700	63.5*96	0.20	18.8	LB401M5C272MD96		1800	63.5*115	0.20	16.4	LB501M5C182MDB5
	3300	63.5*115	0.20	22.2	LB401M5C332MDB5		2200	63.5*130	0.20	19.0	LB501M5C222MDD0
	3900	63.5*130	0.20	25.4	LB401M5C392MDD0		2700	76.2*115	0.20	21.3	LB501M5C272MEB5
	4700	76.2*115	0.20	28.2	LB401M5C472MEB5		3300	76.2*130	0.20	24.6	LB501M5C332MED0
	5600	76.2*130	0.20	32.2	LB401M5C562MED0		3900	76.2*155	0.20	28.7	LB501M5C392MEF5
	6800	76.2*155	0.20	38.5	LB401M5C682MEF5		4700	76.2*170	0.20	32.9	LB501M5C472MEH0
	8200	89*155	0.20	44.4	LB401M5C822MFF5			89*130	0.20	31.4	LB501M5C472MFD0
	10000	89*155	0.20	49.4	LB401M5C103MFF5		5600	76.2*189	0.20	37.8	LB501M5C562MEK0
	12000	89*189	0.20	59.1	LB401M5C123MFK0			89*155	0.20	36.7	LB501M5C562MFF5
	15000	89*220	0.20	71.1	LB401M5C153MFN0		6800	89*170	0.20	41.8	LB501M5C682MFF5
450	270	35*50	0.20	3.7	LB451M5B271MA50		8200	89*189	0.20	48.5	LB501M5C822MFK0
	330	35*85	0.20	4.9	LB451M5B331MA85			100*170	0.20	47.1	LB501M5C822MGH0
	390	35*85	0.20	5.3	LB451M5B391MA85		10000	89*220	0.20	57.9	LB501M5C103MFN0
	470	35*85	0.20	5.8	LB451M5B471MA85			100*189	0.20	54.3	LB501M5C103MGK0
	560	35*100	0.20	6.9	LB451M5B561MAA0		12000	100*220	0.20	64.1	LB501M5C123MGN0
	680	35*100	0.20	7.6	LB451M5B681MAA0	550	820	50*85	0.25	3.32	LB551M5C821MC85
	820	50*75	0.20	8.6	LB451M5C821MC75		1200	50*115	0.25	4.6	LB551M5C122MCB5
	1000	50*75	0.20	9.4	LB451M5C102MC75		1500	63.5*96	0.25	5.42	LB551M5C152MD96
	1200	50*96	0.20	11.4	LB451M5C122MC96		1800	76.2*80	0.25	6.12	LB551M5C182ME80
	1500	50*115	0.20	13.7	LB451M5C152MCB5		2200	76.2*96	0.25	7.3	LB551M5C222ME96
	1800	50*130	0.20	15.8	LB451M5C182MCD0		2700	76.2*115	0.25	8.73	LB551M5C272MEB5
	2200	63.5*96	0.20	17	LB451M5C222MD96		3300	76.2*150	0.25	10.2	LB551M5C332MEF5
	2700	63.5*115	0.20	20.20	LB451M5C272MDB5		5600	89*189	0.25	14.5	LB551M5C562MFK0
	3300	63.5*130	0.20	23.4	LB451M5C332MDD0		6800	76.2*220	0.28	16.3	LB551M5C562MFN0
	3900	76.2*115	0.20	25.6	LB451M5C392MEB5	600	1200	63.5*96	0.20	6.7	LB601M5C122MD96
	4700	76.2*130	0.20	29.4	LB451M5C472MED0		1500	63.5*115	0.20	8.1	LB601M5C152MDB5
	5600	76.2*155	0.20	34.6	LB451M5C562MEF5		1800	76.2*96	0.20	8.8	LB601M5C182ME96
	6800	89*155	0.20	40.5	LB451M5C682MFF5		2200	76.2*115	0.20	10.4	LB601M5C222MEB5
	8200	89*155	0.20	44.6	LB451M5C822MFF5		2700	76.2*130	0.20	12.1	LB601M5C272MED0
	10000	89*189	0.20	53.9	LB451M5C103MFK0		3300	89*130	0.20	14.3	LB601M5C332MFD0
	12000	89*220	0.20	63.8	LB451M5C123MFN0		4700	89*155	0.20	18.3	LB601M5C472MFF5

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise.

When long life performance is required in actual use, the rms ripple current has to be reduced