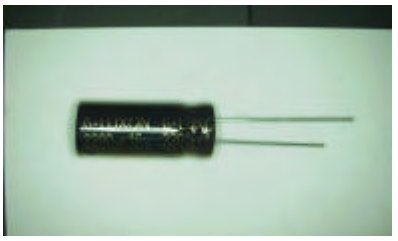
LB Series

■ Features
- Lifetime:105℃,2000hrs
- Wide temperature range
- Low Impedance

■ Recommended Applications
- AV(TV, Video, Audio)
- Monitor/Computer
- OA/HA/Communication
- Converter/Inverter
- SMPS
- Ballast



Specifications

Items	Characteristics
Capacitance Tolerance	±20% (M) (120Hz,20℃)
Rated Voltage Range (WV)	160~450VDC
Operating Temperature Range	-40 ~ +105℃

Surge Voltage (V) (20℃)

WV	160	200	250	350	400	450
SV	200	250	300	400	450	500

Leakage Current (Max) (20℃)

I≦0.03CV +10μA
(After rated voltage applied for 3 minutes)
I= Leakage Current (μA) C= Nominal Capacitance (μF) V= Rated Voltage (V)

Dissipation Factor (Max) (tan δ) (120Hz ,20℃)

WV	160	200	250	350	400	450
tan δ	0.15	0.15	0.15	0.24	0.24	0.24

Low Temperature Stability Impedance Ratio (Max)

Z (120Hz) \ WV	160	200	250	350	400	450
Z(-25℃) / Z(20℃)	3	3	3	3	3	3
Z(-40℃) / Z(20℃)	6	6	6	6	6	6

Load Life

After applying rated voltage for 2000 hours at 105℃,
the capacitor shall meet the following requirement.

Capacitance Change	Within ±20% of the initial value
Dissipation Factor	Not more than 200% of the specified value
Leakage Current	Not More than the specified value

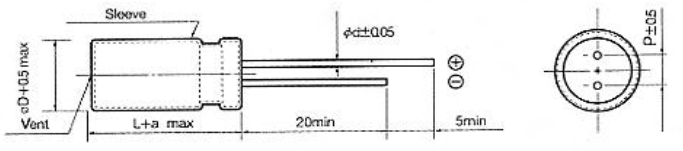
Shelf Life

After placed at 105℃ without voltage applied for 1000 hours,
the capacitor shall meet the same requirement as load life.

Applicable standards

Refer to JIS C 5101

Dimensions (mm)



ψD	10	13	16	18
P	5.0	5.0	7.5	7.5
ψd	0.6	0.6 (0.8)	0.8	0.8
a	1.0	2.0	2.0	2.0

( ) : L≧30

Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)		50	120	1K	10K	100K
Coefficient	<33μF	0.45	0.55	0.75	0.85	1.00
	≧33μF	0.60	0.70	0.90	0.95	1.00

Temperature coefficient

Ambient Temperature (℃)	≦50	70	85	105
Coefficient	1.90	1.75	1.40	1.00

Case Size / Max Ripple Current / Impedance

CASE SIZE (ψDxL(mm)) / MAX PERMISSIBLE RIPPLE CURRENT (RC (mArms) / 120Hz & 100KHz,105℃) / MAX IMPEDANCE (Z(Ω) / 100KHz,20℃)

WV	160				200				250			
SPEC / μF	ψDxL	RC		Z	ψDxL	RC		Z	ψDxL	RC		Z
		120Hz	100KHz			120Hz	100KHz			120Hz	100KHz	
10									10x20	120	220	2.80
22	10x20	195	350	1.00	10x20	195	350	1.00	13x25	165	300	1.40
33	13x20	315	450	0.71	13x20	365	520	0.71	13x25	280	400	1.20
47	13x25	420	600	0.46	13x25	420	600	0.46	16x26	505	720	0.50
68	13x25	420	600	0.45	16x26	665	950	0.25	16x32	570	810	0.22
100	16x26	665	950	0.24	16x32	840	1200	0.17	18x36	735	1050	0.20
220	18x36	980	1400	0.14								

WV	350				400				450			
SPEC / μF	ψDxL	RC		Z	ψDxL	RC		Z	ψDxL	RC		Z
		120Hz	100KHz			120Hz	100KHz			120Hz	100KHz	
2.2	10x16	30	50	3.50	10x16	80	140	4.20	10x16	60	110	7.90
3.3	10x16	35	60	3.50	10x20	110	195	2.90	10x20	75	135	6.20
4.7	10x20	45	78	2.50	10x25	120	220	2.30	13x20	105	190	3.70
10	13x20	75	130	1.40	13x25	200	360	1.30	13x25	140	250	2.60
22	16x26	115	205	0.73	16x26	315	570	0.65	16x32	265	480	1.00
33	16x32	180	255	0.65	16x32	490	700	0.46	18x36	455	650	0.65
47	18x32	225	320	0.50	18x32	600	860	0.33				
100	18x45	370	530	0.45								