

LBV_{Series}

- Downsizing of LBG series.
- For airbag application and power supply application
- High capacitance, low ESR and good low temperature behavior
- Endurance with ripple current: 5,000 hours at 105°C
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

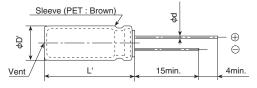


SPECIFICATIONS

Items	Characteristics					
Category Temperature Range	-55 to +105℃					
Rated Voltage Range	25 & 35V _{dc}					
Capacitance Range	3,000 to 15,000μF	(at 20°C, 120Hz)				
Capacitance Tolerance	0 to +30% (A)	(at 20°C, 120Hz)				
Leakage Current	I=0.01CV Where, I: Max. leakage of	current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)				
Dissipation Factor	Rated voltage (V _{dc})	25V 35V				
(tan δ)	$tan \delta$ (Max.)	0.20 0.16				
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)					
Low Temperature	Rated voltage (Vdc)	25V 35V				
Characteristics	Z(-55°C)/Z(+20°C)	3 3				
(Max. Impedance Ratio)		(at 120Hz)				
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltag					
	ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 105℃.				
	Capacitance change	≦±30% of the initial value				
	D.F. (tan δ)	≦300% 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°C after exposing them for 1,000 hours at 105°C 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	≦±30% of the initial value				
	D.F. (tan δ)	≦300% of the initial specified value				
	Leakage current	≦The initial specified value				

◆DIMENSIONS [mm]

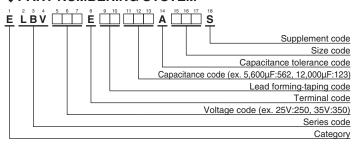
●Terminal Code: E





ϕ D	16	18		
ϕ d	0.8	0.8		
F	7.5	7.5		
ϕ D'	φD+0.5max.			
L'	L+1.5max.			

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (radial lead type)"





STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φ D×L (mm)	tan δ	ESR (Ω max./100kHz)		Rated ripple current	
				20℃	-40°C	(mArms/105°C, 100kHz)	Part No.
	4,400	16 × 20	0.26	0.030	0.095	2,000	ELBV250E□□442AL20S
	5,700	18 × 20	0.28	0.028	0.080	2,100	ELBV250E□□572AM20S
	6,200	16 × 25	0.30	0.024	0.073	2,300	ELBV250E□□622AL25S
	8,100	18 × 25	0.34	0.022	0.060	2,400	ELBV250E□□812AM25S
25	8,500	16 × 31.5	0.34	0.020	0.065	2,550	ELBV250E□□852ALN3S
25	9,900	16 × 35.5	0.36	0.018	0.055	2,700	ELBV250E□□992ALP1S
	11,000	16 × 40	0.40	0.016	0.050	2,900	ELBV250E□□113AL40S
	11,000	18 × 31.5	0.40	0.018	0.045	2,700	ELBV250E□□113AMN3S
	12,000	18 × 35.5	0.42	0.016	0.040	2,900	ELBV250E□□123AMP1S
	15,000	18 × 40	0.48	0.015	0.035	3,100	ELBV250E□□153AM40S
	3,000	16 × 20	0.20	0.030	0.095	2,000	ELBV350E□□302AL20S
35	4,000	18 × 20	0.22	0.028	0.080	2,100	ELBV350E□□402AM20S
	4,300	16 × 25	0.22	0.024	0.073	2,300	ELBV350E□□432AL25S
	5,600	18 × 25	0.24	0.022	0.060	2,400	ELBV350E□□562AM25S
	5,900	16 × 31.5	0.24	0.020	0.065	2,550	ELBV350E□□592ALN3S
	6,900	16 × 35.5	0.26	0.018	0.055	2,700	ELBV350E□□692ALP1S
	7,600	18 × 31.5	0.28	0.018	0.045	2,700	ELBV350E□□762AMN3S
	8,200	16 × 40	0.30	0.016	0.050	2,900	ELBV350E□□822AL40S
	9,000	18 × 35.5	0.32	0.016	0.040	2,900	ELBV350E□□902AMP1S
	10,000	18 × 40	0.34	0.015	0.035	3,100	ELBV350E□□103AM40S

 $[\]square\,\square$: Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

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Capacitance(µF) Frequency(Hz)	120	1k	10k	100k
3,000	0.75	0.90	0.95	1.00
4.000 to 15.000	0.85	0.95	0.98	1.00

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
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 The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
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In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

Part Numbering System
Part Numbering System (Appendix)
Standardization
Available Items by Manufacturing Locations
Environmental Measures
Technical Note
Precautions and Guidelines
Recommended Soldering Conditions
Taping, Lead-preforming and Packaging
Available Terminals for Snap-in and Screw Mount Type