

LBY Series

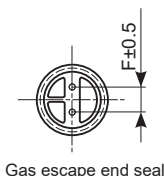
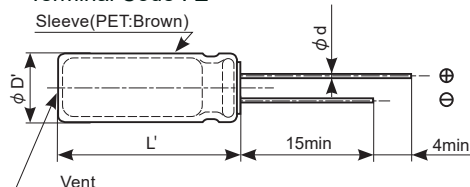
- Downsizing of LBY series
- For airbag application and power supply application
- Endurance with ripple current : 5,000 hours at 105°C
- Solvent resistant type
- RoHS Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

◆ SPECIFICATIONS

Items	Characteristics							
Category	-55 to +105°C							
Temperature Range								
Rated Voltage Range	25 to 100Vdc							
Capacitance Tolerance	0 to +30% (A) (20°C ,120Hz)							
Leakage Current	I=0.01CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (Vdc) (at 20°C after 2 minute)							
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	25V	35V	50V	63V	80V	100V	
	tanδ(Max.)	0.20	0.16	0.10	0.10	0.08	0.08	
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C , 120Hz)							
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	25V	35V	50V	63V	80V	100V	(at 120Hz)
	Z(-55°C) / Z(+20°C)	3	3	3	5	5	5	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20 °C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for the 5,000 hours at 105°C .							
	Capacitance change	≤ ±30% of the initial value						
	D.F. (tanδ)	≤ 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. (tanδ)	≤ 300% of the initial specified value						
	Leakage current	≤ The initial specified value						

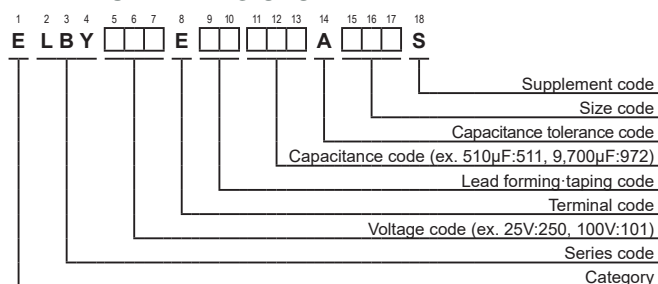
◆ DIMENSIONS [mm]

- Terminal Code : E



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

◆ PART NUMBERING SYSTEM



◆ RATED RIPPLE CURRENT MULTIPLIERS

- Frequency Multipliers

Capacitance (μF)	Frequency (Hz)			
	120	1k	10k	100k
510	0.50	0.85	0.94	1.00
680 to 1,600	0.60	0.87	0.95	1.00
2,200 to 3,700	0.75	0.90	0.95	1.00
4,800 to 9,700	0.85	0.95	0.98	1.00

◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φ D×L (mm)	ESR (Ω max./100kHz)		Rated ripple current (mA rms/105°C, 100kHz)	Part No.
			20°C	-40°C		
25	5,200	16×20	0.030	0.095	2,000	ELBY250E □ □ 522AL20S
	6,800	18×20	0.028	0.080	2,100	ELBY250E □ □ 682AM20S
	7,400	16×25	0.024	0.073	2,300	ELBY250E □ □ 742AL25S
	9,700	18×25	0.022	0.060	2,400	ELBY250E □ □ 972AM25S
	3,700	16×20	0.030	0.095	2,000	ELBY350E □ □ 372AL20S
35	4,800	18×20	0.028	0.080	2,100	ELBY350E □ □ 482AM20S
	5,200	16×25	0.024	0.073	2,300	ELBY350E □ □ 522AL25S
	6,900	18×25	0.022	0.060	2,400	ELBY350E □ □ 692AM25S
	1,600	16×20	0.050	0.15	1,700	ELBY500E □ □ 162AL20S
	2,200	18×20	0.042	0.13	1,900	ELBY500E □ □ 222AM20S
50	2,400	16×25	0.042	0.13	2,100	ELBY500E □ □ 242AL25S
	3,000	18×25	0.033	0.10	2,300	ELBY500E □ □ 302AM25S
63	1,200	16×20	0.053	0.34	1,600	ELBY630E □ □ 122AL20S
	1,600	18×20	0.044	0.26	1,800	ELBY630E □ □ 162AM20S
	1,600	16×25	0.038	0.23	1,900	ELBY630E □ □ 162AL25S
	2,200	18×25	0.033	0.19	2,200	ELBY630E □ □ 222AM25S
	820	16×20	0.053	0.34	1,600	ELBY800E □ □ 821AL20S
80	1,000	18×20	0.044	0.26	1,800	ELBY800E □ □ 102AM20S
	1,200	16×25	0.038	0.23	1,900	ELBY800E □ □ 122AL25S
	1,500	18×25	0.033	0.19	2,200	ELBY800E □ □ 152AM25S
	510	16×20	0.067	0.47	1,400	ELBY101E □ □ 511AL20S
	680	18×20	0.061	0.35	1,700	ELBY101E □ □ 681AM20S
100	750	16×25	0.048	0.33	1,800	ELBY101E □ □ 751AL25S
	1,000	18×25	0.045	0.25	2,100	ELBY101E □ □ 102AM25S

□ □ : Enter the appropriate lead forming or taping code.

Please contact us for mass production schedule.

Specifications in this bulletin are subject to change without notice.