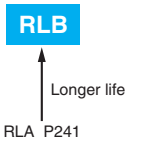
# RLB New! Series

- Endurance with ripple current : 5,000 hours at 85℃
- High ripple current capability in a commercial frequency range
- High ripple current for inverter control like air conditioner
- Rated voltage range : 180 to 250Vdc, Capacitance range : 600 to 2,200μF
- Non solvent resistant type
- RoHS Compliant





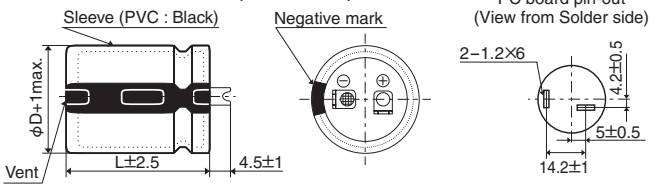


## ◆SPECIFICATIONS

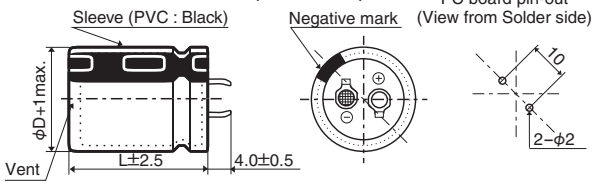
| Items | Characteristics | | |
|---|---|---|---|
| Category Temperature Range | -25 to +85℃ | | |
| Rated Voltage Range | 180 to 250V | | |
| Capacitance Tolerance | ±10% (K) | | (at 20℃, 120Hz) |
| Leakage Current | I≦3√CV<br>Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) | | (at 20℃ after 5 minutes) |
| Dissipation Factor (tan δ ) | Rated voltage ($V_{dc}$) | 180 to 250V | |
| | tan δ (Max.) | 0.15 | (at 20℃, 120Hz) |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage ($V_{dc}$) | 180 to 250V | |
| | Z(-25℃)/Z(+20℃) | 4 | (at 120Hz) |
| 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 5,000 hours at 85℃. | | |
| | Capacitance change | ≦±20% of the initial value | |
| | D. F. (tan δ ) | ≦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 1,000 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 | ≦±15% of the initial value | |
| | D. F. (tan δ ) | ≦150% of the initial specified value | |
| | Leakage current | ≦The initial specified value | |

## ◆DIMENSIONS [mm]

●Terminal Code : LI (φ30, φ35) : Standard

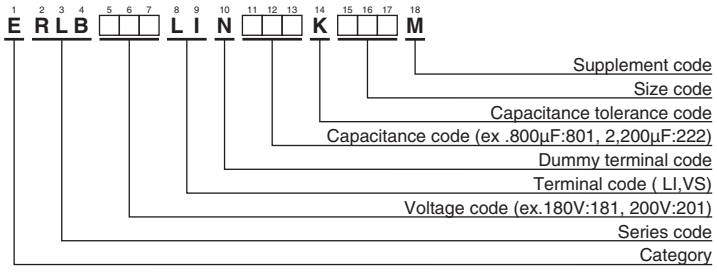



●Terminal Code : VS (φ30, φ35)




The standard design has no plastic disc.

## ◆PART NUMBERING SYSTEM




Please refer to "Product code guide (snap-in type)"

Product specifications in this catalog are subject to change without notice.Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

# RLB New! Series

## ◆STANDARD RATINGS

| WV ($V_{dc}$) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (Arms/ 85℃, 120Hz) | Part No. |
|---|---|---|---|---|---|
| 180 | 900 | 30 × 35 | 0.15 | 4.66 | ERLB181LIN901KR35M |
| | 1,100 | 30 × 40 | 0.15 | 5.17 | ERLB181LIN112KR40M |
| | 1,300 | 30 × 45 | 0.15 | 5.64 | ERLB181LIN132KR45M |
| | 1,500 | 30 × 50 | 0.15 | 6.07 | ERLB181LIN152KR50M |
| | 1,500 | 35 × 40 | 0.15 | 5.75 | ERLB181LIN152KA40M |
| | 1,700 | 30 × 55 | 0.15 | 6.63 | ERLB181LIN172KR55M |
| | 1,800 | 35 × 45 | 0.15 | 6.37 | ERLB181LIN182KA45M |
| | 2,000 | 35 × 50 | 0.15 | 6.84 | ERLB181LIN202KA50M |
| 200 | 900 | 30 × 35 | 0.15 | 4.66 | ERLB201LIN901KR35M |
| | 1,000 | 30 × 40 | 0.15 | 5.01 | ERLB201LIN102KR40M |
| | 1,200 | 30 × 45 | 0.15 | 5.51 | ERLB201LIN122KR45M |
| | 1,200 | 35 × 35 | 0.15 | 5.14 | ERLB201LIN122KA35M |
| | 1,400 | 30 × 50 | 0.15 | 5.95 | ERLB201LIN142KR50M |
| | 1,400 | 35 × 40 | 0.15 | 5.66 | ERLB201LIN142KA40M |
| | 1,500 | 30 × 55 | 0.15 | 6.36 | ERLB201LIN152KR55M |
| | 1,600 | 35 × 45 | 0.15 | 6.14 | ERLB201LIN162KA45M |
| | 1,900 | 35 × 50 | 0.15 | 6.82 | ERLB201LIN192KA50M |
| | 2,200 | 35 × 55 | 0.15 | 7.60 | ERLB201LIN222KA55M |
| 210 | 800 | 30 × 35 | 0.15 | 4.48 | ERLB211LIN801KR35M |
| | 900 | 30 × 40 | 0.15 | 4.86 | ERLB211LIN901KR40M |
| | 1,100 | 30 × 45 | 0.15 | 5.39 | ERLB211LIN112KR45M |
| | 1,100 | 35 × 35 | 0.15 | 5.06 | ERLB211LIN112KA35M |
| | 1,200 | 30 × 50 | 0.15 | 5.71 | ERLB211LIN122KR50M |
| | 1,300 | 35 × 40 | 0.15 | 5.65 | ERLB211LIN132KA40M |
| 210 | 1,400 | 30 × 55 | 0.15 | 6.31 | ERLB211LIN142KR55M |
| | 1,500 | 35 × 45 | 0.15 | 6.21 | ERLB211LIN152KA45M |
| | 1,700 | 35 × 50 | 0.15 | 6.82 | ERLB211LIN172KA50M |
| | 2,000 | 35 × 55 | 0.15 | 7.62 | ERLB211LIN202KA55M |
| 220 | 700 | 30 × 35 | 0.15 | 4.27 | ERLB221LIN701KR35M |
| | 900 | 30 × 40 | 0.15 | 4.85 | ERLB221LIN901KR40M |
| | 1,000 | 30 × 45 | 0.15 | 5.19 | ERLB221LIN102KR45M |
| | 1,000 | 35 × 35 | 0.15 | 4.87 | ERLB221LIN102KA35M |
| | 1,200 | 30 × 50 | 0.15 | 5.68 | ERLB221LIN122KR50M |
| | 1,200 | 35 × 40 | 0.15 | 5.44 | ERLB221LIN122KA40M |
| | 1,300 | 30 × 55 | 0.15 | 6.09 | ERLB221LIN132KR55M |
| | 1,400 | 35 × 45 | 0.15 | 5.96 | ERLB221LIN142KA45M |
| | 1,600 | 35 × 50 | 0.15 | 6.51 | ERLB221LIN162KA50M |
| | 1,800 | 35 × 55 | 0.15 | 7.10 | ERLB221LIN182KA55M |
| 250 | 600 | 30 × 35 | 0.15 | 4.03 | ERLB251LIN601KR35M |
| | 800 | 30 × 40 | 0.15 | 4.66 | ERLB251LIN801KR40M |
| | 900 | 30 × 45 | 0.15 | 5.01 | ERLB251LIN901KR45M |
| | 900 | 35 × 35 | 0.15 | 4.73 | ERLB251LIN901KA35M |
| | 1,000 | 30 × 50 | 0.15 | 5.32 | ERLB251LIN102KR50M |
| | 1,100 | 35 × 40 | 0.15 | 5.33 | ERLB251LIN112KA40M |
| | 1,200 | 30 × 55 | 0.15 | 5.96 | ERLB251LIN122KR55M |
| | 1,200 | 35 × 45 | 0.15 | 5.68 | ERLB251LIN122KA45M |
| | 1,400 | 35 × 50 | 0.15 | 6.25 | ERLB251LIN142KA50M |
| | 1,600 | 35 × 55 | 0.15 | 6.87 | ERLB251LIN162KA55M |

## ◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

| Frequency(Hz) | 50 | 120 | 300 | 1k | 10k | 50k |
|---|---|---|---|---|---|---|
| 180 to 250$V_{dc}$ | 0.70 | 1.00 | 1.17 | 1.32 | 1.45 | 1.50 |

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.

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