

RLA Series

- Endurance with ripple current : 3,000 hours at 85°C
- 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
- RoHS2 Compliant

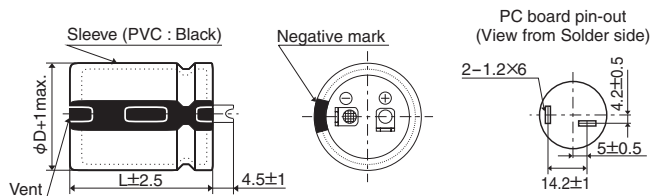


SPECIFICATIONS

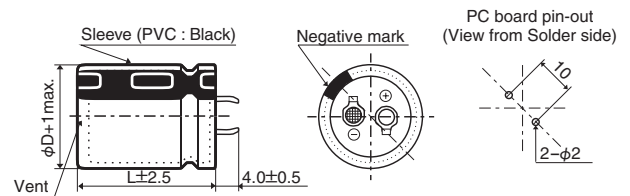
| Items | Characteristics | |
|---|--|---------------------------------------|
| Category | -25 to +85°C | |
| Temperature Range | -25 to +85°C | |
| Rated Voltage Range | 180 to 250V | |
| Capacitance Tolerance | ± 10% (K) (at 20°C, 120Hz) | |
| Leakage Current | I ≤ 3/CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes) | |
| Dissipation Factor (tan δ) | Rated voltage (V _{dc}) | 180 to 250V |
| | tan δ (Max.) | 0.15 (at 20°C, 120Hz) |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (V _{dc}) | 180 to 250V |
| | Z(-25°C)/Z(+20°C) | 4 (at 120Hz) |
| 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 3,000 hours at 85°C. | |
| | 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°C after exposing them for 1,000 hours at 85°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 | ≤ ± 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

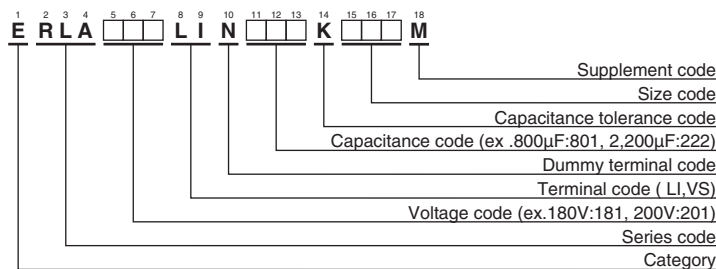


● Terminal Code : VS (φ30, φ35)



The standard design has no plastic disc.

PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

| WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (Arms/85°C, 120Hz) | Part No. | WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (Arms/85°C, 120Hz) | Part No. |
|-----------------------|----------|--------------------|-------|---|--------------------|-----------------------|----------|--------------------|-------|---|--------------------|
| 180 | 900 | 30 × 35 | 0.15 | 4.66 | ERLA181LIN901KR35M | 210 | 1,400 | 30 × 55 | 0.15 | 6.31 | ERLA211LIN142KR55M |
| | 1,100 | 30 × 40 | 0.15 | 5.17 | ERLA181LIN112KR40M | | 1,500 | 35 × 45 | 0.15 | 6.21 | ERLA211LIN152KA45M |
| | 1,300 | 30 × 45 | 0.15 | 5.64 | ERLA181LIN132KR45M | | 1,700 | 35 × 50 | 0.15 | 6.82 | ERLA211LIN172KA50M |
| | 1,500 | 30 × 50 | 0.15 | 6.07 | ERLA181LIN152KR50M | | 2,000 | 35 × 55 | 0.15 | 7.62 | ERLA211LIN202KA55M |
| | 1,500 | 35 × 40 | 0.15 | 5.75 | ERLA181LIN152KA40M | 220 | 700 | 30 × 35 | 0.15 | 4.27 | ERLA221LIN701KR35M |
| | 1,700 | 30 × 55 | 0.15 | 6.63 | ERLA181LIN172KR55M | | 900 | 30 × 40 | 0.15 | 4.85 | ERLA221LIN901KR40M |
| | 1,800 | 35 × 45 | 0.15 | 6.37 | ERLA181LIN182KA45M | | 1,000 | 30 × 45 | 0.15 | 5.19 | ERLA221LIN102KR45M |
| | 2,000 | 35 × 50 | 0.15 | 6.84 | ERLA181LIN202KA50M | | 1,000 | 35 × 35 | 0.15 | 4.87 | ERLA221LIN102KA35M |
| 200 | 900 | 30 × 35 | 0.15 | 4.66 | ERLA201LIN901KR35M | | 1,200 | 30 × 50 | 0.15 | 5.68 | ERLA221LIN122KR50M |
| | 1,000 | 30 × 40 | 0.15 | 5.01 | ERLA201LIN102KR40M | | 1,200 | 35 × 40 | 0.15 | 5.44 | ERLA221LIN122KA40M |
| | 1,200 | 30 × 45 | 0.15 | 5.51 | ERLA201LIN122KR45M | | 1,300 | 30 × 55 | 0.15 | 6.09 | ERLA221LIN132KR55M |
| | 1,200 | 35 × 35 | 0.15 | 5.14 | ERLA201LIN122KA35M | | 1,400 | 35 × 45 | 0.15 | 5.96 | ERLA221LIN142KA45M |
| | 1,400 | 30 × 50 | 0.15 | 5.95 | ERLA201LIN142KR50M | 1,600 | 35 × 50 | 0.15 | 6.51 | ERLA221LIN162KA50M | |
| | 1,400 | 35 × 40 | 0.15 | 5.66 | ERLA201LIN142KA40M | 1,800 | 35 × 55 | 0.15 | 7.10 | ERLA221LIN182KA55M | |
| | 1,500 | 30 × 55 | 0.15 | 6.36 | ERLA201LIN152KR55M | 250 | 600 | 30 × 35 | 0.15 | 4.03 | ERLA251LIN601KR35M |
| | 1,600 | 35 × 45 | 0.15 | 6.14 | ERLA201LIN162KA45M | | 800 | 30 × 40 | 0.15 | 4.66 | ERLA251LIN801KR40M |
| 1,900 | 35 × 50 | 0.15 | 6.82 | ERLA201LIN192KA50M | 900 | | 30 × 45 | 0.15 | 5.01 | ERLA251LIN901KR45M | |
| 2,200 | 35 × 55 | 0.15 | 7.60 | ERLA201LIN222KA55M | 900 | | 35 × 35 | 0.15 | 4.73 | ERLA251LIN901KA35M | |
| 210 | 800 | 30 × 35 | 0.15 | 4.48 | ERLA211LIN801KR35M | | 1,000 | 30 × 50 | 0.15 | 5.32 | ERLA251LIN102KR50M |
| | 900 | 30 × 40 | 0.15 | 4.86 | ERLA211LIN901KR40M | | 1,100 | 35 × 40 | 0.15 | 5.33 | ERLA251LIN112KA40M |
| | 1,100 | 30 × 45 | 0.15 | 5.39 | ERLA211LIN112KR45M | | 1,200 | 30 × 55 | 0.15 | 5.96 | ERLA251LIN122KR55M |
| | 1,100 | 35 × 35 | 0.15 | 5.06 | ERLA211LIN112KA35M | | 1,200 | 35 × 45 | 0.15 | 5.68 | ERLA251LIN122KA45M |
| | 1,200 | 30 × 50 | 0.15 | 5.71 | ERLA211LIN122KR50M | 1,400 | 35 × 50 | 0.15 | 6.25 | ERLA251LIN142KA50M | |
| | 1,300 | 35 × 40 | 0.15 | 5.65 | ERLA211LIN132KA40M | 1,600 | 35 × 55 | 0.15 | 6.87 | ERLA251LIN162KA55M | |

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

| Frequency(Hz) | 50 | 120 | 300 | 1k | 10k | 50k |
|---------------------------|------|------|------|------|------|------|
| 180 to 250V _{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°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.