

- High ripple capability
- For train systems and high power consuming inverter circuits
- Endurance with ripple current: 20,000 hours at 85°C
- RoHS2 Compliant

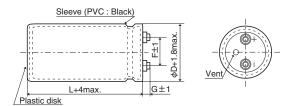


SPECIFICATIONS

| Items | Characteristics | | | | | | |
|------------------------------------|--|--|-----------------|--|--|--|--|
| Category Temperature Range | -25 to +85℃ | | | | | | |
| Rated Voltage Range | 350 to 450V _{dc} | | | | | | |
| Capacitance Tolerance | ±20% (M) | | (at 20℃, 120Hz) | | | | |
| Leakage Current | , | I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes) | | | | | |
| Dissipation Factor (tan δ) | 0.25 max. (at 20℃, 120Hz) | | | | | | |
| Low Temperature Characteristics | Capacitance change C(| Capacitance change $C(-25^{\circ}C)/C(+20^{\circ}C) \ge 0.7$ (at 120Hz) | | | | | |
| Insulation Resistance | When measured between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case by using an insulation resistance meter of $500V_{dc}$, the insulation resistance shall not be less than $100M\Omega$. | | | | | | |
| Insulation Withstanding Voltage | When a voltage of 2,000V _{ac} is applied for 1 minute between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage. | | | | | | |
| 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 20,000 hours at 85°C. | | | | | | |
| | Capacitance change | ≤±30% of the initial value | | | | | |
| | D.F. (tan δ) | ≤300% of the initial specified value | | | | | |
| Shelf Life | 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 500 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 | ≤±20% of the initial value | | | | | |
| | D.F. (tan δ) | ≦300% of the initial specified value | | | | | |
| | Leakage current ≦The initial specified value | | | | | | |

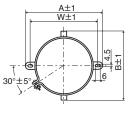
◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code: LG



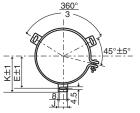
 ϕ 63.5 : G=6 φ76.2 & φ89 : G=5

•Mounting Clamp Code : B



| φD | Α | В | W | F |
|------|-------|------|------|------|
| 63.5 | 90.0 | 76.0 | 80.0 | 28.0 |
| 76.2 | 104.5 | 90.0 | 93.5 | 31.5 |

•Mounting Clamp Code : C



| φD | Е | K | F | J | |
|------|------|------|------|------|--|
| 63.5 | 38.1 | 43.5 | 28.0 | 14.0 | |
| 76.2 | 44.5 | 50.0 | 31.5 | 14.0 | |
| 89 | 50.8 | 56.5 | 31.5 | 16.0 | |

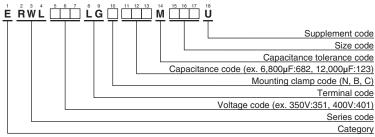
<Screw specifcations>

Plus hexagon-headed screw :M5×0.8×10

Maximum screw tightening torque :3.23Nm

* The screw and the mounting clamp are separately supplied and not attached to the product.

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (screw-mount terminal type)"





STANDARD RATINGS

| WV (V _{dc}) | Cap (µF) | Case size φD×L(mm) | tan δ | Rated ripple current (Arms/ 85°C, 120Hz) | Part No. | |
|--------------------------|-------------|-----------------------|-------|---|--------------------|--|
| | 3,300 | 63.5 × 115 | 0.25 | 11.1 | ERWL351LGC332MDB5U | |
| | 3,900 | 63.5 × 130 | 0.25 | 12.8 | ERWL351LGC392MDD0U | |
| | 4,700 | 63.5 × 155 | 0.25 | 15.2 | ERWL351LGC472MDF5U | |
| | 4,700 | 76.2 × 115 | 0.25 | 14.7 | ERWL351LGC472MEB5U | |
| | 5,600 | 63.5 × 170 | 0.25 | 17.3 | ERWL351LGC562MDH0U | |
| 350 | 5,600 | 76.2×130 | 0.25 | 16.9 | ERWL351LGC562MED0U | |
| | 6,800 | 63.5×190 | 0.25 | 20.0 | ERWL351LGC682MDK0U | |
| | 6,800 | 76.2×155 | 0.25 | 20.2 | ERWL351LGC682MEF5U | |
| | 8,200 | 76.2 × 170 | 0.25 | 23.1 | ERWL351LGC822MEH0U | |
| | 10,000 | 89 × 155 | 0.25 | 26.6 | ERWL351LGC103MFF5U | |
| | 12,000 | 89 × 190 | 0.25 | 32.0 | ERWL351LGC123MFK0U | |
| | 2,700 | 63.5 × 115 | 0.25 | 10.1 | ERWL401LGC272MDB5U | |
| | 3,300 | 63.5×130 | 0.25 | 11.7 | ERWL401LGC332MDD0U | |
| 400 | 3,900 | 63.5 × 155 | 0.25 | 13.8 | ERWL401LGC392MDF5U | |
| 400 | 3,900 | 76.2 × 115 | 0.25 | 14.7 | ERWL401LGC392MEB5U | |
| | 4,700 | 63.5 × 170 | 0.25 | 15.8 | ERWL401LGC472MDH0U | |
| | 4,700 | 76.2×130 | 0.25 | 15.5 | ERWL401LGC472MED0U | |

| WV (V _{dc}) | Cap (µF) | Case size φD×L(mm) | tan δ | Rated ripple current (Arms/ 85°C, 120Hz) | Part No. | |
|--------------------------|-------------|-----------------------|-------|---|--------------------|--|
| | 5,600 | 63.5 × 190 | 0.25 | 18.2 | ERWL401LGC562MDK0U | |
| | 5,600 | 76.2 × 155 | 0.25 | 18.3 | ERWL401LGC562MEF5U | |
| 400 | 6,800 | 76.2 × 170 | 0.25 | 21.0 | ERWL401LGC682MEH0U | |
| | 8,200 | 89 × 155 | 0.25 | 24.1 | ERWL401LGC822MFF5U | |
| | 10,000 | 89 × 190 | 0.25 | 29.1 | ERWL401LGC103MFK0U | |
| | 2,200 | 63.5 × 115 | 0.25 | 9.10 | ERWL451LGC222MDB5U | |
| | 2,700 | 63.5 × 130 | 0.25 | 10.6 | ERWL451LGC272MDD0U | |
| | 2,700 | 76.2 × 115 | 0.25 | 11.2 | ERWL451LGC272MEB5U | |
| | 3,300 | 63.5 × 155 | 0.25 | 12.7 | ERWL451LGC332MDF5U | |
| | 3,300 | 76.2 × 130 | 0.25 | 13.0 | ERWL451LGC332MED0U | |
| 450 | 3,900 | 63.5×170 | 0.25 | 14.4 | ERWL451LGC392MDH0U | |
| | 4,700 | 76.2 × 155 | 0.25 | 16.7 | ERWL451LGC472MEF5U | |
| | 5,600 | 76.2×190 | 0.25 | 20.1 | ERWL451LGC562MEK0U | |
| | 5,600 | 89 × 155 | 0.25 | 19.9 | ERWL451LGC562MFF5U | |
| | 6,800 | 89 × 170 | 0.25 | 23.0 | ERWL451LGC682MFH0U | |
| | 8,200 | 89 × 190 | 0.25 | 26.4 | ERWL451LGC822MFK0U | |

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

| Frequency (Hz) | 50 | 120 | 300 | 1k | 3k |
|----------------|-----|-----|-----|-----|-----|
| Coefficient | 0.8 | 1.0 | 1.1 | 1.3 | 1.4 |

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.

Also, for RWL series capacitors, using them at operating voltage less than their rated voltage can extend their lifetime. For details, please contact a representative of Nippon Chemi-Con.



- 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.
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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