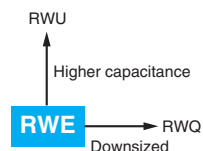


RWESeries

- Endurance with ripple current : 85°C 2,000 hours
- RoHS2 Compliant

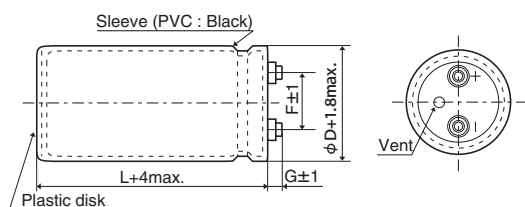


◆SPECIFICATIONS

| Items | Characteristics | | | |
|---------------------------------|--|--------------------------------------|-------------|------------|
| Category | -25 to +85°C | | | |
| Temperature Range | | | | |
| Rated Voltage Range | 350 to 450V _{dc} | | | |
| Capacitance Tolerance | ± 20% (M) (at 20°C, 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°C, 120Hz) | | | |
| Low Temperature Characteristics | Capacitance change | Rated Voltage (V _{dc}) | 350 to 450V | (at 120Hz) |
| | | C(-25°C)/C(+20°C) | ≥0.7 | |
| 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 _{ac} , the insulation resistance shall not be less than 100MΩ. | | | |
| 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 2,000 hours at 85°C. | | | |
| | Capacitance change | ≤ ±20% 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 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 | | |

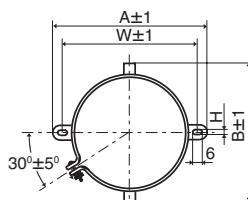
◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code : LG



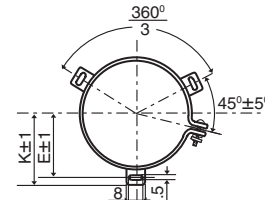
φ35 to φ63.5 : G=6
φ76.2 & φ89 : G=5

●Mounting Clamp Code : B



| φD | A | B | W | H | F |
|------|-------|------|------|-----|------|
| 35 | 58.0 | 44.0 | 48.0 | 3.5 | 12.7 |
| 50 | 78.0 | 64.0 | 68.0 | 4.5 | 22.4 |
| 63.5 | 90.0 | 76.0 | 80.0 | 4.5 | 28.0 |
| 76.2 | 104.5 | 90.0 | 93.5 | 4.5 | 31.5 |

●Mounting Clamp Code : C



| φD | E | K | F | J |
|------|------|------|------|------|
| 50 | 32.5 | 37.0 | 22.4 | 14.0 |
| 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 |

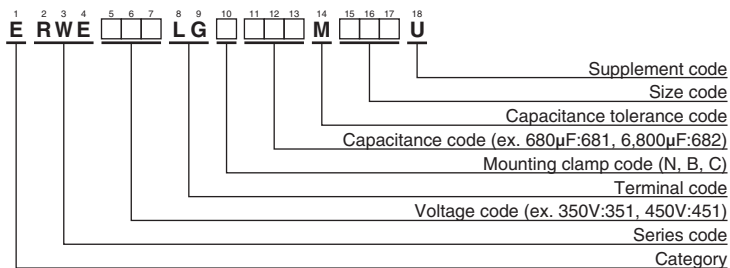
<Screw specifications>

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)"

**RWE** Series

◆STANDARD RATINGS

| WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (Arms/ 85°C, 120Hz) | Part No. |
|--------------------------|-------------|-----------------------|-------|---|--------------------|
| 350 | 390 | 35 × 50 | 0.25 | 1.90 | ERWE351LGB391MA50U |
| | 680 | 35 × 80 | 0.25 | 2.90 | ERWE351LGB681MA80U |
| | 1,000 | 35 × 100 | 0.25 | 3.80 | ERWE351LGB102MAA0U |
| | 1,200 | 35 × 120 | 0.25 | 4.20 | ERWE351LGB122MAC0U |
| | 1,500 | 50 × 75 | 0.25 | 4.70 | ERWE351LGC152MC75U |
| | 2,200 | 50 × 96 | 0.25 | 6.30 | ERWE351LGC222MC96U |
| | 3,300 | 50 × 130 | 0.25 | 8.80 | ERWE351LGC332MCD0U |
| | 3,300 | 63.5 × 96 | 0.25 | 8.80 | ERWE351LGC332MD96U |
| | 3,900 | 63.5 × 115 | 0.25 | 10.3 | ERWE351LGC392MDB5U |
| | 4,700 | 63.5 × 130 | 0.25 | 12.0 | ERWE351LGC472MDD0U |
| | 4,700 | 76.2 × 96 | 0.25 | 11.7 | ERWE351LGC472ME96U |
| | 5,600 | 76.2 × 115 | 0.25 | 12.6 | ERWE351LGC562MEB5U |
| | 6,800 | 76.2 × 130 | 0.25 | 15.9 | ERWE351LGC682MED0U |
| | 8,200 | 76.2 × 155 | 0.25 | 19.0 | ERWE351LGC822MEF5U |
| | 12,000 | 89 × 155 | 0.25 | 22.5 | ERWE351LGC123MFF5U |
| 400 | 330 | 35 × 50 | 0.25 | 1.70 | ERWE401LGB331MA50U |
| | 560 | 35 × 80 | 0.25 | 2.70 | ERWE401LGB561MA80U |
| | 820 | 35 × 100 | 0.25 | 3.40 | ERWE401LGB821MAA0U |
| | 1,000 | 35 × 120 | 0.25 | 3.90 | ERWE401LGB102MAC0U |
| | 1,200 | 50 × 75 | 0.25 | 4.20 | ERWE401LGC122MC75U |
| | 1,800 | 50 × 96 | 0.25 | 5.70 | ERWE401LGC182MC96U |
| | 2,200 | 50 × 130 | 0.25 | 7.20 | ERWE401LGC222MCD0U |
| | 2,700 | 63.5 × 96 | 0.25 | 7.90 | ERWE401LGC272MD96U |
| | 3,300 | 63.5 × 115 | 0.25 | 9.50 | ERWE401LGC332MDB5U |
| | 3,900 | 63.5 × 130 | 0.25 | 10.9 | ERWE401LGC392MDD0U |
| | 3,900 | 76.2 × 96 | 0.25 | 10.6 | ERWE401LGC392ME96U |
| | 4,700 | 76.2 × 115 | 0.25 | 12.6 | ERWE401LGC472MEB5U |
| | 5,600 | 76.2 × 130 | 0.25 | 14.5 | ERWE401LGC562MED0U |
| | 6,800 | 76.2 × 155 | 0.25 | 17.3 | ERWE401LGC682MEF5U |
| | 10,000 | 89 × 155 | 0.25 | 20.5 | ERWE401LGC103MFF5U |

| WV (V _{dc}) | Cap (μF) | Case size φD×L(mm) | tan δ | Rated ripple current (Arms/ 85°C, 120Hz) | Part No. |
|--------------------------|-------------|-----------------------|-------|---|--------------------|
| 450 | 270 | 35 × 50 | 0.25 | 1.60 | ERWE451LGB271MA50U |
| | 470 | 35 × 80 | 0.25 | 2.40 | ERWE451LGB471MA80U |
| | 680 | 35 × 100 | 0.25 | 3.10 | ERWE451LGB681MAA0U |
| | 820 | 35 × 120 | 0.25 | 3.50 | ERWE451LGB821MAC0U |
| | 1,000 | 50 × 75 | 0.25 | 3.90 | ERWE451LGC102MC75U |
| | 1,200 | 50 × 96 | 0.25 | 4.70 | ERWE451LGC122MC96U |
| | 1,500 | 50 × 115 | 0.25 | 5.60 | ERWE451LGC152MCB5U |
| | 1,800 | 50 × 130 | 0.25 | 6.50 | ERWE451LGC182MCD0U |
| | 2,200 | 63.5 × 96 | 0.25 | 7.20 | ERWE451LGC222MD96U |
| | 2,700 | 63.5 × 115 | 0.25 | 8.60 | ERWE451LGC272MDB5U |
| | 3,300 | 63.5 × 130 | 0.25 | 10.0 | ERWE451LGC332MDD0U |
| | 3,300 | 76.2 × 96 | 0.25 | 9.80 | ERWE451LGC332ME96U |
| | 3,900 | 76.2 × 115 | 0.25 | 11.5 | ERWE451LGC392MEB5U |
| | 4,700 | 76.2 × 130 | 0.25 | 13.3 | ERWE451LGC472MED0U |
| | 5,600 | 76.2 × 155 | 0.25 | 15.7 | ERWE451LGC562MEF5U |
| | 8,200 | 89 × 155 | 0.25 | 18.6 | ERWE451LGC822MFF5U |

◆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 the RWE 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.
- 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.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.
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- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.
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](#)