



- ODownsized and high ripple current from RWH series
- Endurance with ripple current: 5,000 hours at 85°C
- RoHS2 Compliant



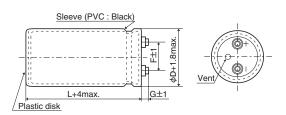


### SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40 to +85℃							
Rated Voltage Range	350 to 450V <sub>dc</sub>							
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 $\delta$ )	0.15 max.	0.15 max. (at 20℃, 120Hz)						
Low Temperature Characteristics	Capacitance change $C(-25^{\circ})/C(+20^{\circ}) \ge 0.7$ (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 <sub>ac</sub> 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 5,000 hours at 85°C.							
	Capacitance change	≤±20% of the initial value						
	D.F. (tan $\delta$ )	≤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 500 hours at 85℃ voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS of the following specifications shall be satisfied when the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS of the following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 500 hours at 85℃ voltage applied.							
	Capacitance change	$\leq$ ±20% of the initial value						
	D.F. (tan $\delta$ ) $\leq$ 200% of the initial specified value  Leakage current $\leq$ The initial specified value							

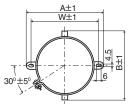
## DIMENSIONS (Screw-Mount) [mm]

●Terminal Code: LG



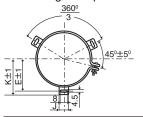
φ63.5, φ76.2 : G=6  $\phi$ 89 : G=4

# ■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	

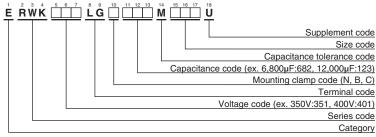
#### <Screw specifications>

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)"





## **STANDARD RATINGS**

WV (V <sub>dc</sub> )	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85°C, 120Hz)	Part No.
	3,900	63.5 × 105	0.15	18.1	ERWK351LGC392MDA5U
	4,700	63.5 × 125	0.15	21.5	ERWK351LGC472MDC5U
	5,600	$63.5 \times 145$	0.15	25.0	ERWK351LGC562MDE5U
	5,600	$76.2 \times 105$	0.15	23.5	ERWK351LGC562MEA5U
350	6,800	$63.5 \times 185$	0.15	30.8	ERWK351LGC682MDJ5U
350	6,800	$76.2 \times 125$	0.15	27.9	ERWK351LGC682MEC5U
	8,200	$76.2 \times 145$	0.15	32.7	ERWK351LGC822MEE5U
	10,000	$76.2 \times 185$	0.15	40.3	ERWK351LGC103MEJ5U
	10,000	89 × 130	0.15	34.4	ERWK351LGC103MFD0U
	12,000	89 × 150	0.15	40.1	ERWK351LGC123MFF0U
	3,300	$63.5 \times 105$	0.15	16.6	ERWK3H1LGC332MDA5U
	3,900	63.5 × 125	0.15	19.4	ERWK3H1LGC392MDC5U
	4,700	63.5 × 145	0.15	22.8	ERWK3H1LGC472MDE5U
	4,700	76.2 × 105	0.15	21.4	ERWK3H1LGC472MEA5U
	5,600	76.2 × 125	0.15	25.2	ERWK3H1LGC562MEC5U
375	6,800	63.5 × 185	0.15	30.7	ERWK3H1LGC682MDJ5U
3/3	6,800	76.2 × 145	0.15	29.6	ERWK3H1LGC682MEE5U
	6,800	89 × 110	0.15	26.3	ERWK3H1LGC682MFB0U
	8,200	89 × 130	0.15	31.0	ERWK3H1LGC822MFD0U
	10,000	76.2 × 185	0.15	40.0	ERWK3H1LGC103MEJ5U
	10,000	89 × 150	0.15	36.4	ERWK3H1LGC103MFF0U
	12,000	89 × 190	0.15	44.3	ERWK3H1LGC123MFK0U

WV (V <sub>dc</sub> )	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85°C, 120Hz)	Part No.
	3,300	63.5 × 105	0.15	16.6	ERWK401LGC332MDA5U
	3,900	63.5 × 125	0.15	19.4	ERWK401LGC392MDC5U
	4,700	$63.5 \times 145$	0.15	22.8	ERWK401LGC472MDE5U
	4,700	$76.2 \times 105$	0.15	21.4	ERWK401LGC472MEA5U
400	5,600	76.2 × 125	0.15	25.2	ERWK401LGC562MEC5U
	6,800	76.2 × 145	0.15	29.6	ERWK401LGC682MEE5U
	8,200	89 × 130	0.15	31.0	ERWK401LGC822MFD0U
	10,000	89 × 150	0.15	36.9	ERWK401LGC103MFF0U
	12,000	89 × 190	0.15	44.3	ERWK401LGC123MFK0U
	2,700	63.5 × 105	0.15	15.0	ERWK451LGC272MDA5U
	3,300	63.5 × 125	0.15	18.0	ERWK451LGC332MDC5U
	3,900	63.5 × 145	0.15	20.9	ERWK451LGC392MDE5U
	3,900	76.2 × 105	0.15	19.6	ERWK451LGC392MEA5U
450	4,700	63.5 × 185	0.15	25.6	ERWK451LGC472MDJ5U
450	4,700	76.2 × 125	0.15	23.2	ERWK451LGC472MEC5U
	5,600	76.2 × 145	0.15	27.0	ERWK451LGC562MEE5U
	6,800	89 × 130	0.15	28.3	ERWK451LGC682MFD0U
	8,200	89 × 150	0.15	33.1	ERWK451LGC822MFF0U
	10,000	89 × 190	0.15	40.6	ERWK451LGC103MFK0U

## **PRATED 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 RWK 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.
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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