

- For frequently change of regenerative voltage from AC servo amplifier and inverter control
- Improved the resistance for charge and discharge from same dimension of RWF series
- Endurance with ripple current: 5,000 hours at 85°C
- Rated voltage range: 350 to 450Vdc, Capacitance 820 to 18,000μF
- RoHS2 Compliant

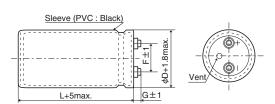


♦SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	-25 to +85℃									
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.	0.25 max. (at 20°C, 120Hz)								
Low Temperature Characteristics	Capacitance change C(-25°C)/C(+20°C)≧0.7	(at 120Hz)							
Insulation Resistance		the terminals shorted each other and the mountineter of $500V_{\text{dc}}$, the insulation resistance shall not	ng clamp on the insulating sleeve covering the case by using be less than $100M\Omega$.							
Insulation Withstanding Voltage		When a voltage of 2,000V _{ac} is applied for 1 minute between the terminals shorted each other and the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.								
Charge and Discharge		ns shall be satisfied when the capacitors are resonations shown below at room temperature (15 to 35℃) ≤±20% of the initial value ≤200% of the initial specified value ≤The initial specified value	stored to 20°C after subjected to charge and discharge test).							
	Frequency	3Hz								
	Number of cycles	50 million times								
	Voltage waveform	Rated voltage 1 cycle 1 cycle								
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voripple 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 δ)	≦200% of the initial specified value								
	Leakage current	≦The initial specified value								
Shelf Life			ed to 20°C after exposing them for 500 hours at 85°C without ned by applying voltage according to Item 4.1 of JIS C 5101-4.							
	Capacitance change	≦±20% of the initial value								
	D.F. (tan δ)	≦200% of the initial specified value								
	Leakage current	≦The initial specified value								

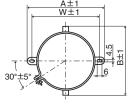
◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code : LG



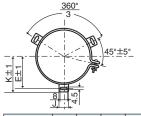
φ50 & φ63.5 : G=6 φ76.2 & φ89 : G=5

●Mounting Clamp Code : B



φD	Α	В	W	F	
50	78.0	64.0	68.0	22.4	
63.5	90.0	76.0	80.0	28.0	
76.2	104.5	90.0	93.5	31.5	

•Mounting Clamp Code : C



ϕ D	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 specifcations>

Plus hexagon-headed screw :M5×0.8×10

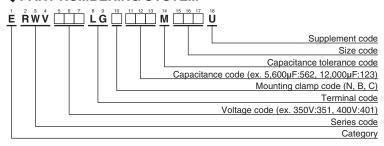
Maximum screw tightening torque :3.23Nm

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



RWVSeries

◆PART NUMBERING SYSTEM



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

STANDARD RATINGS

WV (Vdc)	Cap (µF)	Case size φD×L(mm)	Rated ripple current (Arms/ 85°C, 120Hz)	Effective value of charge and discharge current (Arms/ 3Hz)	Part No.	WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	Rated ripple current (Arms/ 85°C, 120Hz)	Effective value of charge and discharge current (Arms/ 3Hz)	Part No.
	1,200	50 × 60	4.70	1.56	ERWV351LGC122MC60U		5,600	63.5×170	17.1	5.99	ERWV401LGC562MDH0U
	1,500	50 × 70	5.50	1.83	ERWV351LGC152MC70U		5,600	76.2×105	15.2	5.35	ERWV401LGC562MEA5U
	1,800	50 × 80	6.40	2.13	ERWV351LGC182MC80U		6,800	76.2 × 130	18.4	6.47	ERWV401LGC682MED0U
	2,200	50 × 96	7.60	2.53	ERWV351LGC222MC96U		8,200	76.2 × 155	21.9	7.68	ERWV401LGC822MEF5U
	2,700	50 × 105	8.80	2.94	ERWV351LGC272MCA5U	400	8,200	76.2×170	22.8	8.02	ERWV401LGC822MEH0U
	2,700	50 × 115	9.20	3.06	ERWV351LGC272MCB5U	100	8,200	89 × 115	20.9	7.35	ERWV401LGC822MFB5U
	3,300	50 × 130	10.8	3.58	ERWV351LGC332MCD0U		10,000	89 × 130	24.3	8.26	ERWV401LGC103MFD0U
	4,700	63.5 × 115	13.2	4.61	ERWV351LGC472MDB5U		12,000	89 × 155	28.7	10.0	ERWV401LGC123MFF5U
	5,600	63.5 × 130	15.2	5.30	ERWV351LGC562MDD0U		12,000	89 × 170	29.9	10.5	ERWV401LGC123MFH0U
350	5,600	76.2×105	15.2	5.36	ERWV351LGC562MEA5U		15,000	89 × 190	35.2	12.3	ERWV401LGC153MFK0U
		63.5×155	18.1	6.32	ERWV351LGC682MDF5U		820	50 × 60	3.80	1.29	ERWV421LGC821MC60U
	8,200	63.5×170	20.7	7.25	ERWV351LGC822MDH0U		1,000	50 × 70	4.40	1.50	ERWV421LGC102MC70U
		76.2×130	20.2	6.57	ERWV351LGC822MED0U		1,200	50 × 80	5.20	1.75	ERWV421LGC122MC80U
	10,000	76.2×155	24.2	8.47	ERWV351LGC103MEF5U		1,800	50 × 96	6.80	2.30	ERWV421LGC182MC96U
	10,000	89 × 115	23.1	8.10	ERWV351LGC103MFB5U		1,800	50 × 105	7.10	2.40	ERWV421LGC182MCA5U
	12,000	76.2×170	27.6	9.66	ERWV351LGC123MEH0U		2,200	50 × 115	8.20	2.77	ERWV421LGC222MCB5U
	12,000	89 × 130	26.6	9.33	ERWV351LGC123MFD0U		2,700	50 × 130	9.60	3.25	ERWV421LGC272MCD0U
	15,000	89 × 155	32.1	11.2	ERWV351LGC153MFF5U		3,300	63.5 × 115	11.0	3.87	ERWV421LGC332MDB5U
	15,000	89 × 170	33.5	11.7	ERWV351LGC153MFH0U		3,900	63.5 × 130	12.7	4.44	ERWV421LGC392MDD0U
	18,000	89 × 190	38.5	13.5	ERWV351LGC183MFK0U	420	4,700	63.5 × 155	15.0	5.28	ERWV421LGC472MDF5U
	1,000	50 × 60	4.30	1.42	ERWV3H1LGC102MC60U	1720	4,700	76.2×105	13.9	4.92	ERWV421LGC472MEA5U
	1,200	50 × 70	4.90	1.64	ERWV3H1LGC122MC70U		5,600	63.5×170	17.1	6.02	ERWV421LGC562MDH0U
	1,500	50 × 80	5.80	1.94	ERWV3H1LGC152MC80U		5,600	76.2 × 130	16.6	5.90	ERWV421LGC562MED0U
	2,200	50 × 96	7.60	2.54	ERWV3H1LGC222MC96U		6,800	76.2 × 155	19.8	7.02	ERWV421LGC682MEF5U
	2,200	50 × 105	8.00	2.65	ERWV3H1LGC222MCA5U		6,800	89 × 115	19.0	6.73	ERWV421LGC682MFB5U
	2,700	50 × 115	9.20	3.06	ERWV3H1LGC272MCB5U		8,200	76.2×170	22.7	8.04	ERWV421LGC822MEH0U
	3,300	50 × 130	10.8	3.58	ERWV3H1LGC332MCD0U		8,200	89 × 130	22.0	7.78	ERWV421LGC822MFD0U
	4,700	63.5 × 115	13.2	4.61	ERWV3H1LGC472MDB5U		10,000	89 × 155	26.2	9.24	ERWV421LGC103MFF5U
	5,600	63.5 × 130	15.2	5.30	ERWV3H1LGC562MDD0U		12,000	89 × 170	29.9	10.5	ERWV421LGC123MFH0U
375	5,600	76.2×105	15.2	5.36	ERWV3H1LGC562MEA5U		12,000	89 × 190	31.5	11.0	ERWV421LGC123MFK0U
3/3	6,800	63.5×155	18.1	6.32	ERWV3H1LGC682MDF5U		820	50 × 60	3.80	1.29	ERWV451LGC821MC60U
	6,800	63.5×170	18.9	6.60	ERWV3H1LGC682MDH0U		1,000	50 × 70	4.40	1.50	ERWV451LGC102MC70U
	8,200	76.2 × 130	20.2	7.09	ERWV3H1LGC822MED0U		1,200	50 × 80	5.20	1.74	ERWV451LGC122MC80U
	8,200	89 × 115	20.9	7.35	ERWV3H1LGC822MFB5U		1,500	50 × 96	6.20	2.10	ERWV451LGC152MC96U
	10,000	76.2×155	24.2	8.48	ERWV3H1LGC103MEF5U		1,800	50 × 105	7.10	2.41	ERWV451LGC182MCA5U
	10,000	76.2×170	25.2	8.85	ERWV3H1LGC103MEH0U		1,800	50 × 115	7.40	2.51	ERWV451LGC182MCB5U
	10,000	89 × 130	24.3	8.54	ERWV3H1LGC103MFD0U		2,200	50 × 130	8.70	2.93	ERWV451LGC222MCD0U
	12,000	89 × 155	28.7	10.0	ERWV3H1LGC123MFF5U		3,300	63.5 × 115	11.0	3.88	ERWV451LGC332MDB5U
	15,000	89 × 170	33.5	11.7	ERWV3H1LGC153MFH0U		3,900	63.5 × 130	12.7	4.44	ERWV451LGC392MDD0U
	15,000	89 × 190	35.2	12.3	ERWV3H1LGC153MFK0U	450	3,900	76.2 × 105	13.2	4.49	ERWV451LGC392MEA5U
	1,000	50 × 60	4.30	1.42	ERWV401LGC102MC60U	450	4,700	63.5 × 155	15.0	5.27	ERWV451LGC472MDF5U
	1,200	50 × 70	4.90	1.64	ERWV401LGC122MC70U		4,700	63.5 × 170	15.6	5.50	ERWV451LGC472MDH0U
	1,500	50 × 80	5.80	1.95	ERWV401LGC152MC80U		5,600	76.2 × 130	16.6	5.88	ERWV451LGC562MED0U
	1,800	50 × 96	6.90	2.29	ERWV401LGC182MC96U		6,800	76.2 × 155	19.8	7.04	ERWV451LGC682MEF5U
400	2,200	50 × 105	8.00	2.65	ERWV401LGC222MCA5U		6,800	89 × 115	19.0	6.72	ERWV451LGC682MFB5U
400	2,200	50 × 115	8.30	2.77	ERWV401LGC222MCB5U		8,200	76.2 × 170	22.7	7.97	ERWV451LGC822MEH0U
	2,700	50 × 130	9.80	3.23	ERWV401LGC272MCD0U		8,200	89 × 130	22.0	7.72	ERWV451LGC822MFD0U
	3,900	63.5 × 115	12.0	4.21	ERWV401LGC392MDB5U		10,000	89 × 155	26.2	9.22	ERWV451LGC103MFF5U
	4,700	63.5 × 130	13.9	4.86	ERWV401LGC472MDD0U		10,000	89 × 170	27.3	9.66	ERWV451LGC103MFH0U
	5,600	63.5 × 155	16.4	5.75	ERWV401LGC562MDF5U		12,000	89 × 190	31.5	11.1	ERWV451LGC123MFK0U





TABLE 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 RWV series capacitors, using them at operating voltage less than their rated voltage can extend their lifetime. For the 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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 - 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