CHEMI-CON LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS Inverter-use screw terminal, 85°C



RWQ Downsized RWE



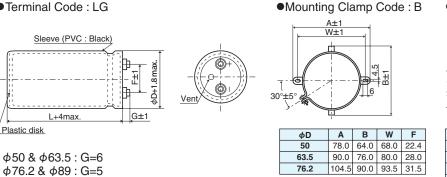
SPECIFICATIONS

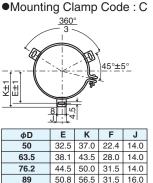
Items	Characteristics								
Category Temperature Range	-25 to +85°C								
Rated Voltage Range	350 to 550V _{dc}								
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)								
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V _α) (at 20°C after 5 minutes)								
Dissipation Factor (tan δ)	0.25 max. (at 20°C, 120Hz)								
Low Temperature	Rated voltage (Vdc)	350 to 450V	500 to 550V						
Characteristics	C(-25℃) / C(+20℃)	≧0.7	≧0.6	(at 120Hz)					
Insulation Resistance	When measured between the terminals shorted each other and 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 shorted each other and 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	$\leq \pm 20\%$ of the initial	tial value						
	D.F. (tan δ)	≦300% of the initi							
	Leakage current	≦The initial specif							
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 JISC 5101-4.								
	Capacitance change	\leq ±20% of the ini	tial value						
	D.F. (tan δ)	≦300% of the initi	al specified value						
	Leakage current	≦The initial specif	ied value						

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DIMENSIONS (Screw-Mount) [mm]

Terminal Code : LG





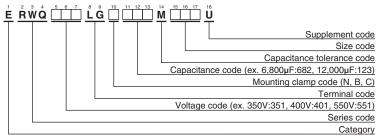
<Screw specifcations>

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)"

RWQ_{Series}

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.
	1,500	50 imes 65	0.25	5.09	ERWQ351LGC152MC65U		470	50×60	0.25	2.17	ERWQ501LGC471MC60U
	1,800	50 × 75	0.25	5.93	ERWQ351LGC182MC75U		680	50×65	0.25	2.70	ERWQ501LGC681MC65U
	2,200	50 × 96	0.25	7.30	ERWQ351LGC222MC96U		820	50×75	0.25	3.15	ERWQ501LGC821MC75U
	2,700	50 × 115	0.25	8.76	ERWQ351LGC272MCB5U		1,000	50 × 85	0.25	3.67	ERWQ501LGC102MC85U
	3,300	63.5 × 85	0.25	9.71	ERWQ351LGC332MD85U		1,200	50×96	0.25	4.22	ERWQ501LGC122MC96U
	3,900	50 × 130	0.25	11.1	ERWQ351LGC392MCD0U		1,500	50 × 115	0.25	5.14	ERWQ501LGC152MCB5U
	3,900	63.5×96	0.25	11.1	ERWQ351LGC392MD96U		1,500	63.5×96	0.25	5.42	ERWQ501LGC152MD96U
350	4,700	63.5 × 115	0.25	13.2	ERWQ351LGC472MDB5U	500	1,800	50 × 130	0.25	5.95	ERWQ501LGC182MCD0U
	5,600	63.5 × 130	0.25	15.2	ERWQ351LGC562MDD0U		1,800	63.5 × 96	0.25	5.94	ERWQ501LGC182MD96U
	5,600	76.2 × 96	0.25	14.3	ERWQ351LGC562ME96U		2,200	63.5 × 115	0.25	7.10	ERWQ501LGC222MDB5U
	6,800	76.2 × 115	0.25	17.0	ERWQ351LGC682MEB5U		2,200	76.2 × 96	0.25	7.30	ERWQ501LGC222ME96U
	8,200	76.2 × 130	0.25	19.6	ERWQ351LGC822MED0U		2,700	63.5 × 130	0.25	8.31	ERWQ501LGC272MDD0U
	10,000	76.2 × 155	0.25	23.4	ERWQ351LGC103MEF5U		3,300	76.2 × 115	0.25	9.65	ERWQ501LGC332MEB5U
	12,000	89 × 130	0.25	24.1	ERWQ351LGC123MFD0U		3,900	76.2 × 130	0.25	11.1	ERWQ501LGC392MED0U
	15,000	89 × 155 50 × 65	0.25	29.1 4.55	ERWQ351LGC153MFF5U ERWQ401LGC122MC65U		4,700	76.2 × 155 89 × 155	0.25	13.1 15.9	ERWQ501LGC472MEF5U ERWQ501LGC682MFF5U
	1,200 1,500	50×65 50×75	0.25	4.55 5.41	ERWQ401LGC122MC650		6,800 390	50 × 60	0.25	1.98	ERWQ551LGC391MC60U
	1,800	$\frac{50 \times 75}{50 \times 85}$	0.25	6.26	ERWQ401LGC182MC750		560	$\frac{50 \times 60}{50 \times 65}$	0.25	2.45	ERWQ551LGC561MC65U
	2,200	50 × 85	0.25	7.30	ERWQ401LGC182MC850		680	50×65 50×75	0.25	2.45	ERWQ551LGC681MC75U
	2,200	50×30 50 × 115	0.25	8.76	ERWQ401LGC272MCB5U		820	$\frac{50 \times 75}{50 \times 85}$	0.25	3.32	ERWQ551LGC821MC85U
	3,300	63.5 × 96	0.25	10.2	ERWQ401LGC332MD96U		1,200	50×05 50 × 115	0.25	4.60	ERWQ551LGC122MCB5U
	3,900	63.5 × 115	0.25	12.0	ERWQ401LGC392MDB5U	550	1,500	63.5 × 96	0.25	5.42	ERWQ551LGC152MD96U
400	4,700	63.5 × 130	0.25	13.9	ERWQ401LGC472MDD0U		1,800	76.2 × 80	0.25	6.12	ERWQ551LGC182ME80U
	4,700	76.2 × 96	0.25	13.1	ERWQ401LGC472ME96U		2,200	76.2 × 96	0.25	7.30	ERWQ551LGC222ME96U
	5,600	63.5 × 155	0.25	16.5	ERWQ401LGC562MDF5U		2,700	76.2 × 115	0.25	8.73	ERWQ551LGC272MEB5U
	6,800	76.2 × 115	0.25	17.0	ERWQ401LGC682MEB5U		3,300	76.2 × 130	0.25	10.2	ERWQ551LGC332MED0U
	8,200	76.2 × 155	0.25	21.2	ERWQ401LGC822MEF5U		5,600	89 × 155	0.25	14.5	ERWQ551LGC562MFF5U
	10,000	89 × 130	0.25	22.0	ERWQ401LGC103MFD0U			•	,		
	12,000	89 × 155	0.25	26.0	ERWQ401LGC123MFF5U						
	1,000	50 × 70	0.25	3.87	ERWQ451LGC102MC70U						
	1,200	50 × 75	0.25	4.36	ERWQ451LGC122MC75U						
	1,500	50 × 90	0.25	5.28	ERWQ451LGC152MC90U						
	1,800	50×96	0.25	5.95	ERWQ451LGC182MC96U						
	2,200	50 × 130	0.25	7.54	ERWQ451LGC222MCD0U						
	2,700	63.5×96	0.25	8.34	ERWQ451LGC272MD96U						
450	3,300	63.5×115	0.25	9.97	ERWQ451LGC332MDB5U						
450	3,900	63.5×130	0.25	11.4	ERWQ451LGC392MDD0U						
	3,900	76.2 × 96	0.25	11.1	ERWQ451LGC392ME96U						
	4,700	63.5 × 155	0.25	13.6	ERWQ451LGC472MDF5U						
	4,700	76.2 × 115	0.25	13.2	ERWQ451LGC472MEB5U						
	5,600	76.2 × 130	0.25	15.2	ERWQ451LGC562MED0U						
	6,800	76.2 × 155	0.25	18.1	ERWQ451LGC682MEF5U						
	8,200	89 × 130	0.25	19.2	ERWQ451LGC822MFD0U						

♦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 RWQ 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.

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CHEMI-CON ALUMINUM ELECTROLYTIC CAPACITORS

- 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.

Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.

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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
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.

In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

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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