RHA Series

- Realized higher voltage than RWF series (500 to 650Vdc)
- Endurance with ripple current : 5,000 hours at 85℃
- Suitable for high voltage inverter
- RoHS2 compliant

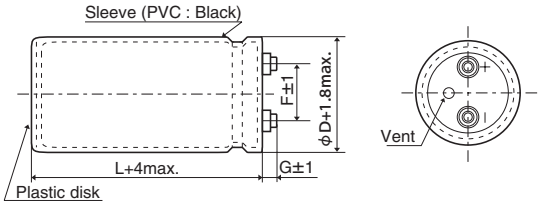
RHA
↑ Higher voltage
RWF

◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-25 to +85℃	
Rated Voltage Range	500 to 650Vdc	
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℃ after 5 minutes)
Dissipation Factor (tan δ)	0.25 max.	(at 20℃, 120Hz)
Low Temperature Characteristics	Capacitance change C(-25℃)/C(+20℃)≧0.6	(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 500Vdc, the insulation resistance shall not be less than 100MΩ.	
Insulation Withstanding Voltage	When a voltage of 2,000Vac 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℃ 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℃.	
	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	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 500 hours at 85℃ 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)	≦200% of the initial specified value
	Leakage current	≦The initial specified value

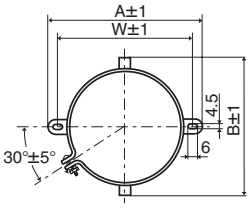
◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code : LG



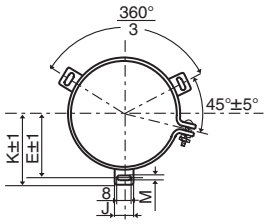
φ50 & φ63.5 : G=6
φ76.2 & φ89 : G=5
φ100 : G=10

●Mounting Clamp Code : B



φD	A	B	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



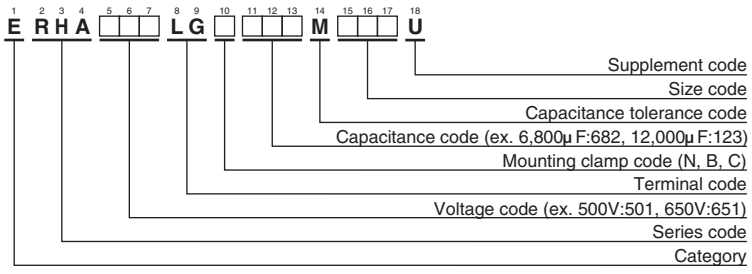
φD	E	K	M	F	J
50	32.5	37.0	4.5	22.4	14.0
63.5	38.1	43.5	4.5	28.0	14.0
76.2	44.5	50.0	4.5	31.5	14.0
89	50.8	56.5	4.5	31.5	16.0
100	56.5	63.4	5.5	41.5	18.0

<Screw specifications>
to φ89 Plus hexagon-headed screw :M5×0.8×10
Maximum screw tightening torque :3.23Nm

φ100 Cross-recessed head (phillips) screw : M8×1.25×16
Spring washer,Washer
Maximum screw tightening torque :6.31Nm

* 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)"

Product specifications in this catalog are subject to change without notice.Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

RHA Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85℃,120Hz)	Part No.
500	1,200	50×95	0.25	5.90	ERHA501LGC122MC95U
	1,500	50×115	0.25	7.20	ERHA501LGC152MCB5U
	1,800	50×130	0.25	8.30	ERHA501LGC182MCD0U
	2,200	50×150	0.25	9.80	ERHA501LGC222MCF0U
	2,700	63.5×120	0.25	11.2	ERHA501LGC272MDC0U
	3,300	63.5×140	0.25	13.3	ERHA501LGC332MDE0U
	3,900	63.5×170	0.25	15.7	ERHA501LGC392MDH0U
	3,900	76.2×130	0.25	15.4	ERHA501LGC392MED0U
	4,700	76.2×150	0.25	18.1	ERHA501LGC472MEF0U
	5,600	76.2×170	0.25	20.8	ERHA501LGC562MEH0U
	5,600	89×130	0.25	17.1	ERHA501LGC562MFD0U
	6,800	89×150	0.25	20.0	ERHA501LGC682MFF0U
	8,200	89×190	0.25	24.4	ERHA501LGC822MFK0U
	10,000	89×210	0.25	28.2	ERHA501LGC103MFM0U
	12,000	100×210	0.25	32.9	ERHA501LGC123MGM0U
	15,000	100×250	0.25	39.8	ERHA501LGC153MGR0U
550	1,000	50×95	0.25	5.40	ERHA551LGC102MC95U
	1,200	50×110	0.25	6.30	ERHA551LGC122MCB0U
	1,500	50×130	0.25	7.60	ERHA551LGC152MCD0U
	1,800	63.5×105	0.25	8.60	ERHA551LGC182MDA5U
	2,200	63.5×120	0.25	10.1	ERHA551LGC222MDC0U
	2,700	63.5×150	0.25	12.4	ERHA551LGC272MDF0U
	2,700	76.2×105	0.25	11.7	ERHA551LGC272MEA5U
	3,300	63.5×170	0.25	14.5	ERHA551LGC332MDH0U
	3,300	76.2×130	0.25	14.2	ERHA551LGC332MED0U
	3,900	76.2×140	0.25	15.9	ERHA551LGC392MEE0U
	4,700	76.2×170	0.25	19.1	ERHA551LGC472MEH0U
	4,700	89×130	0.25	15.6	ERHA551LGC472MFD0U

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85℃,120Hz)	Part No.
550	5,600	89×150	0.25	18.2	ERHA551LGC562MFF0U
	6,800	89×170	0.25	21.1	ERHA551LGC682MFH0U
	8,200	100×170	0.25	24.8	ERHA551LGC822MGH0U
	10,000	100×200	0.25	29.4	ERHA551LGC103MGL0U
600	1,200	63.5×95	0.25	6.70	ERHA601LGC122MD95U
	1,500	63.5×110	0.25	8.00	ERHA601LGC152MDB0U
	1,800	63.5×125	0.25	9.30	ERHA601LGC182MDC5U
	1,800	76.2×95	0.25	9.10	ERHA601LGC182ME95U
	2,200	63.5×145	0.25	11.0	ERHA601LGC222MDE5U
	2,200	76.2×110	0.25	10.8	ERHA601LGC222MEB0U
	2,700	63.5×170	0.25	13.1	ERHA601LGC272MDH0U
	2,700	76.2×125	0.25	12.6	ERHA601LGC272MEC5U
	3,300	76.2×145	0.25	14.9	ERHA601LGC332MEE5U
	3,900	76.2×170	0.25	17.3	ERHA601LGC392MEH0U
	3,900	89×130	0.25	14.2	ERHA601LGC392MFD0U
	4,700	76.2×190	0.25	20.0	ERHA601LGC472MEK0U
	4,700	89×150	0.25	16.6	ERHA601LGC472MFF0U
	5,600	89×170	0.25	19.1	ERHA601LGC562MFH0U
650	1,000	63.5×100	0.25	6.30	ERHA651LGC102MDA0U
	1,200	63.5×110	0.25	7.20	ERHA651LGC122MDB0U
	1,500	63.5×130	0.25	8.60	ERHA651LGC152MDD0U
	1,800	63.5×150	0.25	10.1	ERHA651LGC182MDF0U
	2,200	63.5×170	0.25	11.7	ERHA651LGC222MDH0U
	2,700	76.2×150	0.25	13.6	ERHA651LGC272MEF0U
	3,300	76.2×170	0.25	15.8	ERHA651LGC332MEH0U
	3,900	89×155	0.25	15.3	ERHA651LGC392MFF5U
	4,700	89×190	0.25	18.4	ERHA651LGC472MFK0U

◆RATED RIPPLE CURRENT MULTIPLIERS

❶Frequency Multipliers

Frequency (Hz)	50	120	300	1k	3k
Coefficient	0.8	1.0	1.2	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 RHA 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.

Product specifications in this catalog are subject to change without notice.Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

■ 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.

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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

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