

RHA Series

- Realized higher voltage than RWF series (500 to 650V_{dc})
- Endurance with ripple current : 5,000 hours at 85°C
- Suitable for high voltage inverter
- RoHS2 compliant

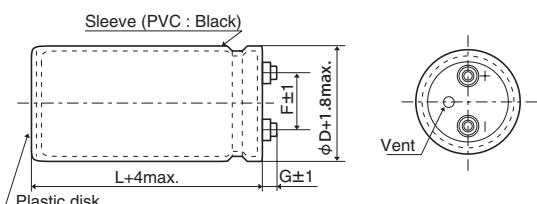


◆SPECIFICATIONS

Items	Characteristics	
Category	-25 to +85°C	
Temperature Range	500 to 650V _{dc}	
Rated Voltage Range	Capacitance Tolerance $\pm 20\%$ (M) (at 20°C, 120Hz)	
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μ A), C : Nominal capacitance (μ F), 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 $C(-25^\circ\text{C})/C(+20^\circ\text{C}) \geq 0.6$ (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 500V _{dc} , the insulation resistance shall not be less than 100M Ω .	
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 5,000 hours at 85°C. Capacitance change $\leq \pm 20\%$ of the initial value D.F. (tan δ) $\leq 200\%$ of the initial specified value Leakage current \leq 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 $\leq \pm 20\%$ of the initial value D.F. (tan δ) $\leq 200\%$ of the initial specified value Leakage current \leq The initial specified value	

◆DIMENSIONS (Screw-Mount) [mm]

- Terminal Code : LG



φ50 & φ 63.5 : G=6
φ76.2 & φ 89 : G=5
φ100 : G=10

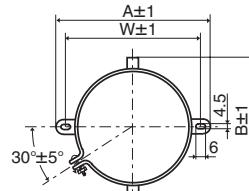
<Screw specifications>

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

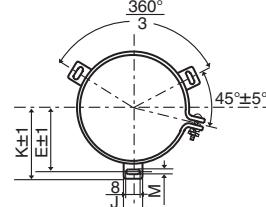
* The screw and the mounting clamp are separately supplied and not attached to the product.

- Mounting Clamp Code : B



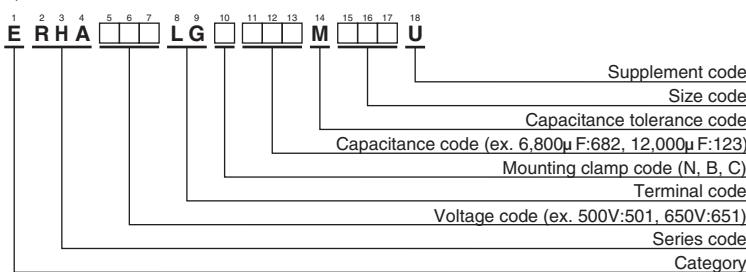
φD	A	B	W	F
50	78.0	64.0	68.0	22.4
63.5	90.0	76.0	80.0	28.0
76.2	104.5	90.0	93.5	31.5

- 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

◆PART NUMBERING SYSTEM



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

RHA Series

◆STANDARD RATINGS

WV (V _{dc})	Cap (μ F)	Case size ϕ D×L(mm)	tan δ	Rated ripple current (Arms/ 85°C,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 (μ F)	Case size ϕ D×L(mm)	tan δ	Rated ripple current (Arms/ 85°C,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

◎ Frequency Multipliers

Frequency (Hz)	50	120	300	1k	3k
Coefficient	0.8	1.0	1.2	1.3	1.4

Note : The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5 to 10°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced. 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.

Mouser Electronics

Authorized Distributor

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United Chemi-Con (UCC):

ERHA651LGC332MEH0M	ERHA551LGC392MEE0M	ERHA501LGC182MCD0M	ERHA551LGC332MED0M
ERHA651LGC472MFK0M	ERHA551LGC822MGH0M	ERHA501LGC123MGM0M	ERHA501LGC332MDE0M
ERHA551LGC472MEH0M	ERHA551LGC122MCB0M	ERHA601LGC332MEE5M	ERHA501LGC562MEH0M
ERHA551LGC102MC95M	ERHA651LGC392MFF5M	ERHA601LGC182ME95M	ERHA601LGC392MEH0M
ERHA501LGC682MFF0M	ERHA601LGC472MFF0M	ERHA501LGC103MFM0M	ERHA601LGC562MFH0M
ERHA651LGC272MEF0M	ERHA651LGC152MDD0M	ERHA551LGC103MGL0M	ERHA551LGC222MDC0M
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ERHA551LGC562MFF0M	ERHA501LGC472MEF0M	ERHA651LGC182MDF0M	ERHA651LGC222MDH0M
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ERHA501LGC392MED0M	ERHA601LGC152MDB0M	ERHA501LGC152MCB5M	ERHA501LGC392MDH0M
ERHA601LGC222MDE5M	ERHA551LGC332MDH0M	ERHA551LGC272MEA5M	ERHA551LGC472MFD0M
ERHA601LGC182MDC5M	ERHA601LGC472MEK0M	ERHA601LGC122MD95M	ERHA601LGC562MFH0U