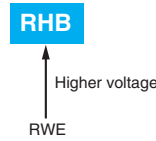




# LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS Inverter-use screw terminal, 85°C

## RHB Series

- Realized higher voltage than RWE series. (575 to 700V<sub>dc</sub>)
- Endurance with ripple current : 2,000 hours at 85°C
- Suitable for X-ray and welder power supply where high energy is required
- RoHS2 Compliant

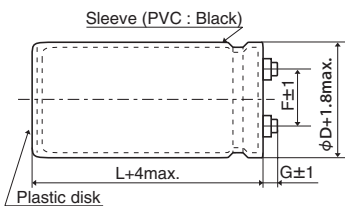


### ◆ SPECIFICATIONS

Items	Characteristics
<b>Category</b>	
<b>Temperature Range</b>	-25 to +85°C
<b>Rated Voltage Range</b>	575 to 700V <sub>dc</sub>
<b>Capacitance Tolerance</b>	±20% (M) (at 20°C, 120Hz)
<b>Leakage Current</b>	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)
<b>Dissipation Factor (tan δ)</b>	0.25 max. (at 20°C, 120Hz)
<b>Low Temperature Characteristics</b>	Capacitance change $C(-25°C)/C(+20°C) \geq 0.6$ (at 120Hz)
<b>Insulation Resistance</b>	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 <sub>dc</sub> , the insulation resistance shall not be less than 100MΩ.
<b>Insulation Withstanding Voltage</b>	When a voltage of 2,000V <sub>dc</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.
<b>Endurance</b>	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 value
	D.F. (tan δ) $\leq 200\%$ of the initial specified value
	Leakage current $\leq$ The initial specified value
<b>Shelf Life</b>	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

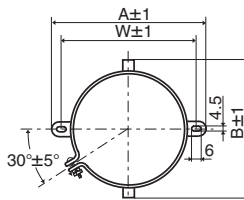
### ◆ DIMENSIONS (Screw-Mount) [mm]

● Terminal Code : LG



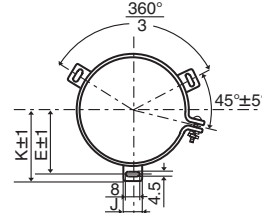
φ 63.5 : G=6  
φ 76.2 & φ 89 : G=5

● Mounting Clamp Code : B



φD	A	B	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



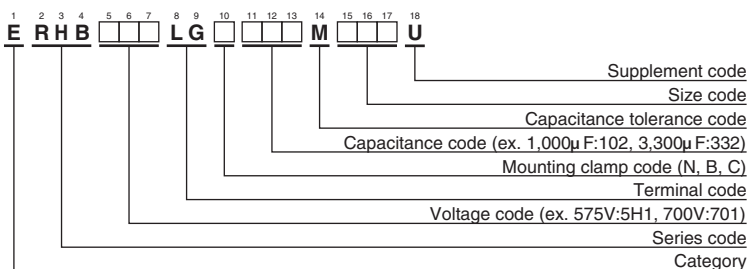
φD	E	K	F	J
63.5	38.1	43.5	28.0	14.0
76.2	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0

<Screw specifications>

to φ89 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)"

RHB Series

◆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.	WV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/85°C,120Hz)	Part No.	
575	1,000	63.5×70	0.25	3.80	ERHB5H1LGC102MD70U	630	1,500	76.2×85	0.25	5.60	ERHB631LGC152ME85U	
	1,200	63.5×80	0.25	4.40	ERHB5H1LGC122MD80U		1,800	63.5×125	0.25	6.60	ERHB631LGC182MDC5U	
	1,500	63.5×95	0.25	5.30	ERHB5H1LGC152MD95U		1,800	76.2×95	0.25	6.40	ERHB631LGC182ME95U	
	1,500	76.2×70	0.25	5.20	ERHB5H1LGC152ME70U		1,800	89×85	0.25	5.70	ERHB631LGC182MF85U	
	1,800	63.5×100	0.25	5.90	ERHB5H1LGC182MDA0U		2,200	76.2×115	0.25	7.80	ERHB631LGC222MEB5U	
	1,800	76.2×80	0.25	6.00	ERHB5H1LGC182ME80U		2,200	89×90	0.25	6.50	ERHB631LGC222MF90U	
	2,200	63.5×120	0.25	7.10	ERHB5H1LGC222MDC0U		2,700	76.2×130	0.25	9.10	ERHB631LGC272MED0U	
	2,200	76.2×95	0.25	7.20	ERHB5H1LGC222ME95U		2,700	89×100	0.25	7.40	ERHB631LGC272MFA0U	
	2,700	76.2×105	0.25	8.30	ERHB5H1LGC272MEA5U		3,300	89×120	0.25	9.00	ERHB631LGC332MFC0U	
	2,700	89×85	0.25	7.00	ERHB5H1LGC272MF85U		700	1,000	63.5×115	0.25	4.70	ERHB701LGC102MDB5U
	3,300	76.2×120	0.25	9.70	ERHB5H1LGC332MEC0U			1,200	63.5×125	0.25	5.40	ERHB701LGC122MDC5U
	3,300	89×100	0.25	8.30	ERHB5H1LGC332MFA0U			1,500	76.2×115	0.25	6.40	ERHB701LGC152MEB5U
	3,900	89×105	0.25	9.10	ERHB5H1LGC392MFA5U			1,800	76.2×125	0.25	7.20	ERHB701LGC182MEC5U
4,700	89×130	0.25	11.1	ERHB5H1LGC472MFD0U	1,800	89×105		0.25	6.20	ERHB701LGC182MFA5U		
5,600	89×145	0.25	12.7	ERHB5H1LGC562MFE5U	2,200	76.2×155		0.25	8.80	ERHB701LGC222MEF5U		
630	1,000	63.5×85	0.25	4.10	ERHB631LGC102MD85U	2,200		89×115	0.25	7.10	ERHB701LGC222MFB5U	
	1,200	63.5×95	0.25	4.80	ERHB631LGC122MD95U	2,700		89×135	0.25	8.50	ERHB701LGC272MFD5U	
	1,500	63.5×115	0.25	5.80	ERHB631LGC152MDB5U	3,300		89×155	0.25	9.90	ERHB701LGC332MFF5U	

◆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 RHB 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.

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