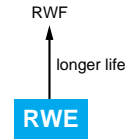




# LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS Inverter-use screw terminal, 85°C

## RWE Series

- Rated voltage range : 350 to 550V<sub>dc</sub>
- Endurance with ripple current : 85°C 2000 hours



### ◆ SPECIFICATIONS

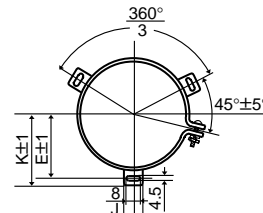
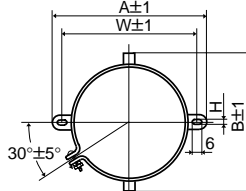
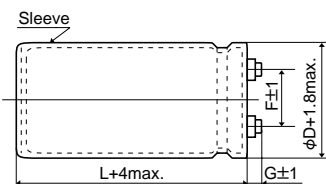
Items	Characteristics			
<b>Category</b> Temperature Range	-25 to +85°C			
<b>Rated Voltage Range</b>	350 to 550V <sub>dc</sub>			
<b>Capacitance Tolerance</b>	±20% (M) (at 20°C, 120Hz)			
<b>Leakage Current</b>	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)			
<b>Dissipation Factor (tanδ)</b>	0.25 max. (at 20°C, 120Hz)			
<b>Low Temperature Characteristics</b>	Capacitance change	Rated Voltage (V <sub>dc</sub> )	350 to 450V	500 & 550V
		C(-25°C)/C(+20°C)	≥0.7	≥0.6
<b>Insulation Resistance</b>	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 <sub>dc</sub> , the insulation resistance shall not be less than 100MΩ.			
<b>Insulation Withstanding Voltage</b>	When a voltage of 2000Vac 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.			
<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 for 2000 hours at 85°C.			
	Capacitance change	≤±20% of the initial value		
	D.F. (tanδ)	≤300% of the initial specified value		
	Leakage current	≤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.			
	Capacitance change	≤±20% of the initial value		
	D.F. (tanδ)	≤300% of the initial specified value		
	Leakage current	≤The initial specified value		

### ◆ DIMENSIONS (Screw-Mount) [mm]

● Terminal Code : LG

● Mounting Clamp Code : B

● Mounting Clamp Code : C



φD	A	B	W	H	F
35	58	44	48	3.5	12.7
50	78	64	68	4.5	22.4
63.5	90	76	80	4.5	28.0
76	104.5	90	93.5	4.5	31.5

φD	E	K	F	J
50	32.5	37.0	22.4	14.0
63.5	38.1	43.5	28.0	14.0
76	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0

φ35 to φ63.5 : G=6

φ76 & φ89 : G=5

<Screw specifications>

Plus hexagon-headed screw:

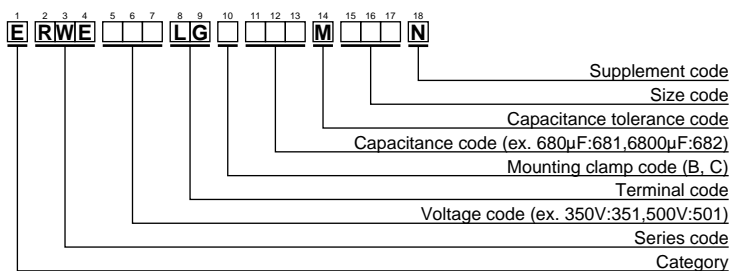
M5×0.8×10

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 "A guide to global code (screw-mount terminal type)"

**◆STANDARD RATINGS**

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/85°C,120Hz)	Part No.	WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/85°C,120Hz)	Part No.
350	390	35×50	0.25	1.9	ERWE351LGB391MA50N	450	2700	63.5×115	0.25	8.6	ERWE451LGC272MDB5N
	680	35×80	0.25	2.9	ERWE351LGB681MA80N		3300	63.5×130	0.25	10.0	ERWE451LGC332MDD0N
	1000	35×100	0.25	3.8	ERWE351LGB102MAA0N		3300	76×96	0.25	9.8	ERWE451LGC332ME96N
	1200	35×120	0.25	4.2	ERWE351LGB122MAC0N		3900	76×115	0.25	11.5	ERWE451LGC392MEB5N
	1500	50×75	0.25	4.7	ERWE351LGC152MC75N		4700	76×130	0.25	13.3	ERWE451LGC472MED0N
	2200	50×96	0.25	6.3	ERWE351LGC222MEF5N		5600	76×155	0.25	15.7	ERWE451LGC562MEF5N
	3300	50×130	0.25	8.8	ERWE351LGC332MCD0N		8200	89×155	0.25	18.6	ERWE451LGC822MFF5N
	3300	63.5×96	0.25	8.8	ERWE351LGC332MD96N		500	120	35×50	0.25	0.7
	3900	63.5×115	0.25	10.3	ERWE351LGC392MDB5N	270		35×80	0.25	1.2	ERWE501LGB271MA80N
	4700	63.5×130	0.25	12.0	ERWE351LGC472MDD0N	330		35×100	0.25	1.4	ERWE501LGB331MAA0N
	4700	76×96	0.25	11.7	ERWE351LGC472ME96N	390		35×120	0.25	1.7	ERWE501LGB391MAC0N
	5600	76×115	0.25	12.6	ERWE351LGC562MEB5N	470		50×75	0.25	1.8	ERWE501LGC471MC75N
	6800	76×130	0.25	15.9	ERWE351LGC682MED0N	680		50×96	0.25	2.5	ERWE501LGC681MC96N
	8200	76×155	0.25	19.0	ERWE351LGC822MEF5N	820		50×115	0.25	2.9	ERWE501LGC821MCF5N
12000	89×155	0.25	22.5	ERWE351LGC123MFF5N	1000	50×130		0.25	3.4	ERWE501LGC102MCD0N	
400	330	35×50	0.25	1.7	ERWE401LGB331MA50N	1000		63.5×96	0.25	3.4	ERWE501LGC102MD96N
	560	35×80	0.25	2.7	ERWE401LGB561MA80N	1500		63.5×115	0.25	4.5	ERWE501LGC152MDB5N
	820	35×100	0.25	3.4	ERWE401LGB821MAA0N	1500		76×96	0.25	4.6	ERWE501LGB152ME96N
	1000	35×120	0.25	3.9	ERWE401LGB102MAC0N	1800		63.5×130	0.25	5.2	ERWE501LGC182MDD0N
	1200	50×75	0.25	4.2	ERWE401LGC122MC75N	2200	76×115	0.25	6.1	ERWE501LGC222MEB5N	
	1800	50×96	0.25	5.7	ERWE401LGC182MC96N	2700	76×155	0.25	7.7	ERWE501LGC272MEF5N	
	2200	50×130	0.25	7.2	ERWE401LGC222MCD0N	3900	89×155	0.25	10.1	ERWE501LGC392MFF5N	
	2700	63.5×96	0.25	7.9	ERWE401LGC272MD96N	550	100	35×50	0.25	0.6	ERWE551LGB101MA50N
	3300	63.5×115	0.25	9.5	ERWE401LGC332MDB5N		180	35×80	0.25	1.0	ERWE551LGB181MA80N
	3900	63.5×130	0.25	10.9	ERWE401LGC392MDD0N		270	35×100	0.25	1.3	ERWE551LGB271MAA0N
	3900	76×96	0.25	10.6	ERWE401LGC392ME96N		330	35×120	0.25	1.6	ERWE551LGB331MAC0N
	4700	76×115	0.25	12.6	ERWE401LGC472MEB5N		390	50×75	0.25	1.7	ERWE551LGC391MC75N
	5600	76×130	0.25	14.5	ERWE401LGC562MED0N		560	50×96	0.25	2.1	ERWE551LGC561MC96N
	6800	76×155	0.25	17.3	ERWE401LGC682MEF5N		560	63.5×96	0.25	2.5	ERWE551LGC561MD96N
10000	89×155	0.25	20.5	ERWE401LGC103MFF5N	680		50×115	0.25	2.7	ERWE551LGC681MCB5N	
450	270	35×50	0.25	1.6	ERWE451LGB271MA50N		680	63.5×115	0.25	3.0	ERWE551LGC681MDB5N
	470	35×80	0.25	2.4	ERWE451LGB471MA80N		820	50×130	0.25	3.1	ERWE551LGC821MCD0N
	680	35×100	0.25	3.1	ERWE451LGB681MAA0N		820	63.5×130	0.25	3.5	ERWE551LGC821MDD0N
	820	35×120	0.25	3.5	ERWE451LGB821MAC0N		1200	76×96	0.25	4.2	ERWE551LGC122ME96N
	1000	50×75	0.25	3.9	ERWE451LGC102MC75N		1500	76×115	0.25	5.0	ERWE551LGC152MEB5N
	1200	50×96	0.25	4.7	ERWE451LGC122MC96N		1800	76×130	0.25	5.8	ERWE551LGC182MED0N
	1500	50×115	0.25	5.6	ERWE451LGC152MCB5N	2200	76×155	0.25	7.0	ERWE551LGC222MEF5N	
	1800	50×130	0.25	6.5	ERWE451LGC182MCD0N	3300	89×155	0.25	9.3	ERWE551LGC332MFF5N	
	2200	63.5×96	0.25	7.2	ERWE451LGC222MD96N						

**◆RATED RIPPLE CURRENT MULTIPLIERS**
**●Frequency Multipliers**

Frequency (Hz)	50	120	300	1k	3k
Coefficient	0.8	1.0	1.1	1.3	1.4

Note : The endurance of capacitors is shorted 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 RWE 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.