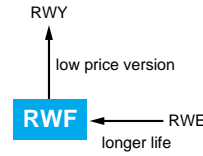




LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS Inverter-use screw terminal, 85°C

RWF Series

- High ripple capability
- Endurance with ripple current : 85°C 5000 hours
- Wide variety case sizes from φ50 to φ100



◆ SPECIFICATIONS

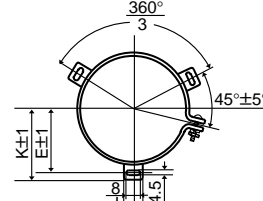
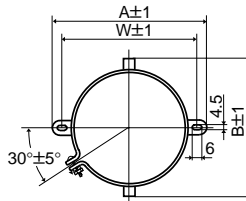
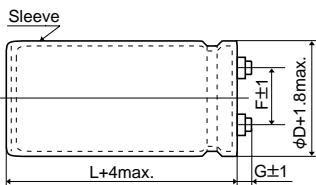
Items	Characteristics						
Category							
Temperature Range	-25 to +85°C						
Rated Voltage Range	350 to 450V _{dc}						
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)						
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)						
Dissipation Factor (tanδ)	0.25 max. (at 20°C, 120Hz)						
Low Temperature Characteristics	Capacitance change $C(-25°C)/C(+20°C) \geq 0.7$ (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 100MΩ.						
Insulation Withstanding Voltage	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.						
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 for 5000 hours at 85°C.						
	<table border="1"> <tr> <td>Capacitance change</td> <td>≤±20% of the initial value</td> </tr> <tr> <td>D.F. (tanδ)</td> <td>≤200% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤The initial specified value</td> </tr> </table>	Capacitance change	≤±20% of the initial value	D.F. (tanδ)	≤200% of the initial specified value	Leakage current	≤The initial specified value
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D.F. (tanδ)	≤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°C after exposing them for 500 hours at 85°C without voltage applied.						
	<table border="1"> <tr> <td>Capacitance change</td> <td>≤±20% of the initial value</td> </tr> <tr> <td>D.F. (tanδ)</td> <td>≤200% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤The initial specified value</td> </tr> </table>	Capacitance change	≤±20% of the initial value	D.F. (tanδ)	≤200% of the initial specified value	Leakage current	≤The initial specified value
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◆ DIMENSIONS (Screw-Mount) [mm]

● Terminal Code : LG

● Mounting Clamp Code : B

● Mounting Clamp Code : C



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

φD	A	B	W	F
50	78	64	68	22.4
63.5	90	76	80	28.0
76	104.5	90	93.5	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
100	56.5	63.4	41.5	18.0

<Screw specifications>

φ50 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

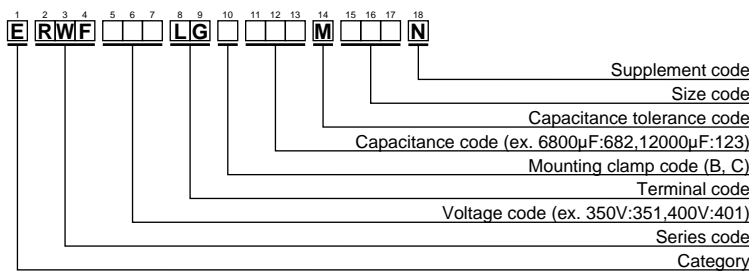
Washer

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



◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/85°C,120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/85°C,120Hz)	Part No.
350	2200	50×96	0.25	7.7	ERWF351LGC222MC96N	400	5600	76×130	0.25	16.9	ERWF401LGC562MED0N
	2700	50×115	0.25	9.3	ERWF351LGC272MCB5N		6800	76×155	0.25	20.2	ERWF401LGC682MEF5N
	3300	50×130	0.25	10.8	ERWF351LGC332MCD0N		8200	76×170	0.25	22.8	ERWF401LGC822MEH0N
	3900	63.5×115	0.25	12.1	ERWF351LGC392MDB5N		10000	89×155	0.25	26.6	ERWF401LGC103MFF5N
	4700	63.5×130	0.25	14.0	ERWF351LGC472MDD0N		12000	89×170	0.25	30.0	ERWF401LGC123MFH0N
	5600	63.5×155	0.25	16.6	ERWF351LGC562MDF5N		15000	100×190	0.25	33.7	ERWF401LGC153MGK0N
	5600	76×115	0.25	16.1	ERWF351LGC562MEB5N		18000	100×220	0.25	37.4	ERWF401LGC183MGN0N
	6800	63.5×190	0.25	20.0	ERWF351LGC682MDK0N		450	1200	50×96	0.25	5.7
	6800	76×130	0.25	18.6	ERWF351LGC682MED0N	1500		50×96	0.25	6.3	ERWF451LGC152MC96N
	8200	76×155	0.25	22.2	ERWF351LGC822MEF5N	1800		50×115	0.25	7.6	ERWF451LGC182MCB5N
	10000	76×170	0.25	25.2	ERWF351LGC103MEH0N	2200		50×130	0.25	8.8	ERWF451LGC222MCD0N
	12000	89×155	0.25	29.1	ERWF351LGC123MFF5N	2700		63.5×115	0.25	10.1	ERWF451LGC272MDB5N
	15000	89×190	0.25	35.7	ERWF351LGC153MFK0N	3300		63.5×130	0.25	11.7	ERWF451LGC332MDD0N
	18000	100×190	0.25	36.9	ERWF351LGC183MGK0N	3900		63.5×155	0.25	13.8	ERWF451LGC392MDF5N
22000	100×250	0.25	46.1	ERWF351LGC223MGR0N	3900	76×115		0.25	13.4	ERWF451LGC392MEB5N	
400	1800	50×96	0.25	7.0	ERWF401LGC182MC96N	4700		63.5×190	0.25	16.7	ERWF451LGC472MDK0N
	2200	50×105	0.25	8.0	ERWF401LGC222MCA5N	4700		76×130	0.25	15.5	ERWF451LGC472MED0N
	2700	50×130	0.25	9.8	ERWF401LGC272MCD0N	5600		76×155	0.25	18.3	ERWF451LGC562MEF5N
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	5600	63.5×190	0.25	18.2	ERWF401LGC562MDK0N	15000	100×250	0.25	37.0	ERWF451LGC153MGR0N	

◆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 currents 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 RWF 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.