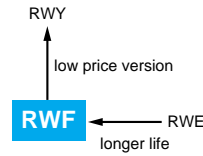




LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS Inverter-use screw terminal, 85°C

RWF Series

- High ripple capability
- Endurance with ripple current : 85°C 5000 hours
- Wide variety case sizes from $\phi 50$ to $\phi 100$



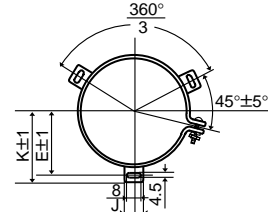
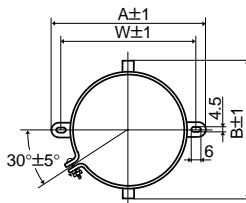
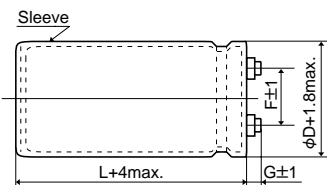
◆ SPECIFICATIONS

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 2000V _{ac} 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" style="width:100%; border-collapse: collapse;"> <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" style="width:100%; border-collapse: collapse;"> <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 (Terminal Type=LGSN) [mm]

● B Type of Mounting Clamp

● C Type of Mounting Clamp



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

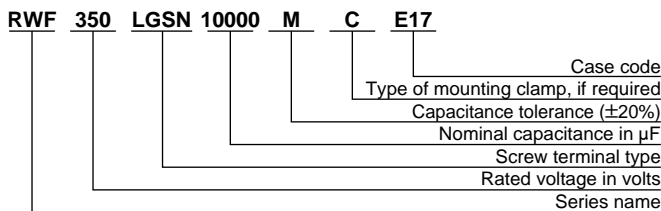
φD	E	K	F	J
50	32.5	37.0	22.4	14.0
63.5	38.1	43.5	28.0	14.0
76	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0
100	56.5	63.4	41.5	18.0

<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



◆STANDARD RATINGS

Case size φD×L (mm)	V _{dc}		400		450		
	SV		400		500		
	Items	Capacitance (μF) 20°C, 120Hz	Rated ripple current (Arms) 85°C, 120Hz	Capacitance (μF) 20°C, 120Hz	Rated ripple current (Arms) 85°C, 120Hz	Capacitance (μF) 20°C, 120Hz	Rated ripple current (Arms) 85°C, 120Hz
50×96		2,200	7.7	1,800	7.0	1,200	5.7
						1,500	6.3
50×105				2,200	8.0		
50×115		2,700	9.3			1,800	7.6
50×130		3,300	10.8	2,700	9.8	2,200	8.8
63.5×115		3,900	12.1	3,300	11.1	2,700	10.1
63.5×130		4,700	14.0	3,900	12.7	3,300	11.7
63.5×155		5,600	16.6	4,700	15.2	3,900	13.8
63.5×190		6,800	20.0	5,600	18.2	4,700	16.7
76×115		5,600	16.1	4,700	14.7	3,900	13.4
76×130		6,800	18.6	5,600	16.9	4,700	15.5
76×155		8,200	22.2	6,800	20.2	5,600	18.3
76×170		10,000	25.2	8,200	22.8	6,800	20.7
89×155		12,000	29.1	10,000	26.6	8,200	24.1
89×170				12,000	30.0	10,000	27.8
89×190		15,000	35.7				
100×190		18,000	36.9	15,000	33.7	12,000	29.3
100×220				18,000	37.4		
100×250		22,000	46.1			15,000	37.0

◆CASE CODE

φD (mm) \ L (mm)	96	105	115	130	155	170	190	220	250
50	C9	C10R	C11	C13	—	—	—	—	—
63.5	—	—	D11	D13	D15	—	D19	—	—
76	—	—	E11	E13	E15	E17	—	—	—
89	—	—	—	—	F15	F17	F19	—	—
100	—	—	—	—	—	—	G19	G22	G25

◆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.