

# RWY Series

- High ripple capability
- Endurance with ripple current : 5,000 hours at 85°C
- Reduced cost design for three-phase input inverters
- RoHS Compliant

RWY

↑ Low price version  
RWF



## ◆ SPECIFICATIONS

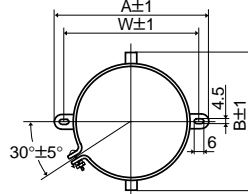
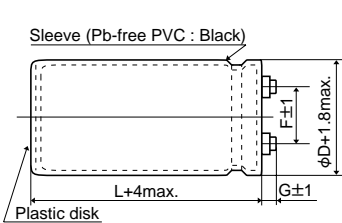
Items	Characteristics						
Category							
Temperature Range	-25 to +85°C						
Rated Voltage Range	350 to 450V <sub>dc</sub>						
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)						
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)						
Dissipation Factor (tanδ)	0.12 max. (at 20°C, 120Hz)						
Low Temperature Characteristics	Capacitance change C(-25°C)/C(+20°C)≥0.7 (at 120Hz)						
Insulation Resistance	When it is 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.						
Insulation Withstanding Voltage	When a voltage of 2,000V <sub>ac</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.						
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 5,000 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 1,000 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. <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]

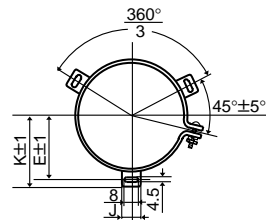
● Terminal Code : LG

● Mounting Clamp Code : B

● Mounting Clamp Code : C



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



φD	E	K	F	J
50	32.5	37.0	22.4	14.0
63.5	38.1	43.5	28.0	14.0
76.2	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

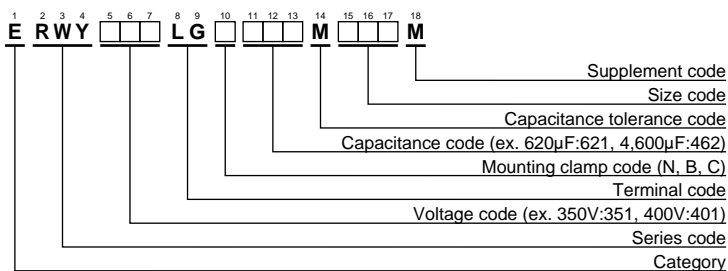
φ50 to φ76.2 : G=6

φ89 : G=4

φ100 : G=10

\* 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)"



**RWY Series**

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/85°C,300Hz)	Part No.	WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/85°C,300Hz)	Part No.	
350	750	50×75	0.12	5.10	ERWY351LGC751MC75M	400	3,200	63.5×170	0.12	17.3	ERWY401LGC322MDH0M	
	1,100	50×96	0.12	6.90	ERWY351LGC112MC96M		3,400	76.2×130	0.12	17.5	ERWY401LGC342MED0M	
	1,300	50×105	0.12	7.80	ERWY351LGC132MCA5M		4,200	76.2×155	0.12	21.1	ERWY401LGC422MEF5M	
	1,600	50×130	0.12	9.50	ERWY351LGC162MCD0M		4,600	76.2×170	0.12	23.0	ERWY401LGC462MEH0M	
	1,800	63.5×96	0.12	10.0	ERWY351LGC182MD96M		5,700	89×155	0.12	24.7	ERWY401LGC572MFF5M	
	1,900	50×145	0.12	10.7	ERWY351LGC192MCE5M		6,400	89×170	0.12	27.0	ERWY401LGC642MFH0M	
	2,400	63.5×115	0.12	12.6	ERWY351LGC242MDB5M		7,000	89×190	0.12	30.0	ERWY401LGC702MFK0M	
	2,800	63.5×130	0.12	14.3	ERWY351LGC282MDD0M		7,900	100×190	0.12	34.0	ERWY401LGC792MGK0M	
	3,400	63.5×155	0.12	17.1	ERWY351LGC342MDF5M		9,400	100×220	0.12	39.6	ERWY401LGC942MGN0M	
	3,500	76.2×115	0.12	16.9	ERWY351LGC352MEB5M		12,000	100×270	0.12	49.2	ERWY401LGC123MGT0M	
	3,800	63.5×170	0.12	18.8	ERWY351LGC382MDH0M		450	500	50×75	0.12	4.00	ERWY451LGC501MC75M
	4,000	76.2×130	0.12	19.0	ERWY351LGC402MED0M			710	50×96	0.12	5.20	ERWY451LGC711MC96M
	5,000	76.2×155	0.12	23.0	ERWY351LGC502MEF5M			840	50×105	0.12	5.90	ERWY451LGC841MCA5M
	5,600	76.2×170	0.12	25.3	ERWY351LGC562MEH0M			1,100	50×130	0.12	7.50	ERWY451LGC112MCD0M
	6,900	89×155	0.12	27.2	ERWY351LGC692MFF5M			1,200	63.5×96	0.12	7.80	ERWY451LGC122MD96M
	7,700	89×170	0.12	29.6	ERWY351LGC772MFH0M			1,300	50×145	0.12	8.40	ERWY451LGC132MCE5M
8,400	89×190	0.12	32.9	ERWY351LGC842MFK0M	1,600	63.5×115		0.12	9.80	ERWY451LGC162MDB5M		
9,500	100×190	0.12	37.3	ERWY351LGC952MGK0M	1,800	63.5×130		0.12	10.9	ERWY451LGC182MDD0M		
11,000	100×220	0.12	42.9	ERWY351LGC113MGN0M	2,300	63.5×155		0.12	13.3	ERWY451LGC232MDF5M		
14,000	100×270	0.12	53.1	ERWY351LGC143MGT0M	2,300	76.2×115		0.12	13.0	ERWY451LGC232MEB5M		
400	620	50×75	0.12	4.60	ERWY401LGC621MC75M	2,500		63.5×170	0.12	14.5	ERWY451LGC252MDH0M	
	880	50×96	0.12	6.10	ERWY401LGC881MC96M	2,700		76.2×130	0.12	14.8	ERWY451LGC272MED0M	
	1,000	50×105	0.12	6.80	ERWY401LGC102MCA5M	3,300		76.2×155	0.12	17.7	ERWY451LGC332MEF5M	
	1,400	50×130	0.12	8.90	ERWY401LGC142MCD0M	3,700		76.2×170	0.12	19.5	ERWY451LGC372MEH0M	
	1,500	63.5×96	0.12	9.10	ERWY401LGC152MD96M	4,600		89×155	0.12	22.2	ERWY451LGC462MFF5M	
	1,600	50×145	0.12	9.90	ERWY401LGC162MCE5M	5,100		89×170	0.12	24.1	ERWY451LGC512MFH0M	
	2,000	63.5×115	0.12	11.5	ERWY401LGC202MDB5M	5,700	89×190	0.12	27.1	ERWY451LGC572MFK0M		
	2,300	63.5×130	0.12	13.0	ERWY401LGC232MDD0M	6,400	100×190	0.12	30.6	ERWY451LGC642MGK0M		
	2,800	63.5×155	0.12	15.5	ERWY401LGC282MDF5M	7,600	100×220	0.12	35.6	ERWY451LGC762MGN0M		
	2,900	76.2×115	0.12	15.4	ERWY401LGC292MEB5M	9,500	100×270	0.12	43.7	ERWY451LGC952MGT0M		

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (Hz)	120	300	1k	3k
Coefficient	0.83	1.00	1.25	1.33

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 RWY 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.