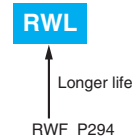


# RWL Series

- High ripple capability
- For train systems and high power consuming inverter circuits
- Endurance with ripple current : 20,000 hours at 85°C
- RoHS Compliant

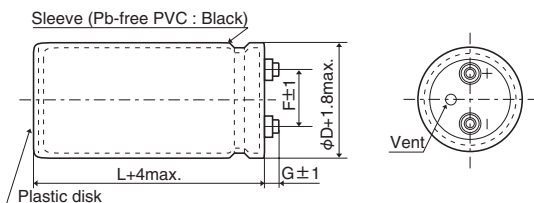


## SPECIFICATIONS

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 (tan δ)	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 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 (the peak voltage shall not exceed the rated voltage) for 20,000 hours at 85°C. <table border="1"> <tr> <td>Capacitance change</td> <td>≤ ±30% of the initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>≤ 300% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤ The initial specified value</td> </tr> </table>	Capacitance change	≤ ±30% of the initial value	D.F. (tan δ)	≤ 300% of the initial specified value	Leakage current	≤ The initial specified value
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D.F. (tan δ)	≤ 300% 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. 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. (tan δ)</td> <td>≤ 300% 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. (tan δ)	≤ 300% of the initial specified value	Leakage current	≤ The initial specified value
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Leakage current	≤ The initial specified value						

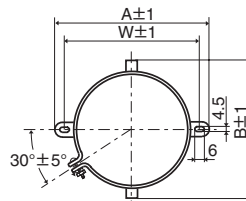
## DIMENSIONS (Screw-Mount) [mm]

● Terminal Code : LG



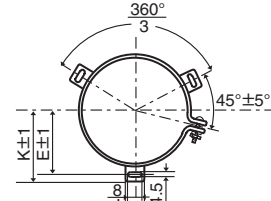
φ63.5 : G=6  
φ76.2 & φ89 : G=5

● 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

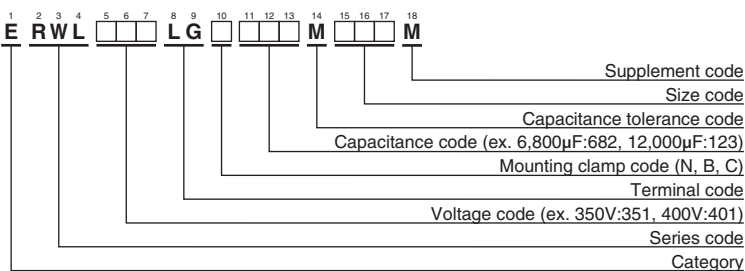
<Screw specifications>

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)"

**RWL**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.	
350	3,300	63.5 × 115	0.25	11.1	ERWL351LGC332MDB5M	400	5,600	63.5 × 190	0.25	18.2	ERWL401LGC562MDK0M	
	3,900	63.5 × 130	0.25	12.8	ERWL351LGC392MDD0M		5,600	76.2 × 155	0.25	18.3	ERWL401LGC562MEF5M	
	4,700	63.5 × 155	0.25	15.2	ERWL351LGC472MDF5M		6,800	76.2 × 170	0.25	21.0	ERWL401LGC682MEH0M	
	4,700	76.2 × 115	0.25	14.7	ERWL351LGC472MEB5M		8,200	89 × 155	0.25	24.1	ERWL401LGC822MFF5M	
	5,600	63.5 × 170	0.25	17.3	ERWL351LGC562MDH0M		10,000	89 × 190	0.25	29.1	ERWL401LGC103MFK0M	
	5,600	76.2 × 130	0.25	16.9	ERWL351LGC562MED0M		450	2,200	63.5 × 115	0.25	9.10	ERWL451LGC222MDB5M
	6,800	63.5 × 190	0.25	20.0	ERWL351LGC682MDK0M			2,700	63.5 × 130	0.25	10.6	ERWL451LGC272MDD0M
	6,800	76.2 × 155	0.25	20.2	ERWL351LGC682MEF5M			2,700	76.2 × 115	0.25	11.2	ERWL451LGC272MEB5M
	8,200	76.2 × 170	0.25	23.1	ERWL351LGC822MEH0M			3,300	63.5 × 155	0.25	12.7	ERWL451LGC332MDF5M
	10,000	89 × 155	0.25	26.6	ERWL351LGC103MFF5M			3,300	76.2 × 130	0.25	13.0	ERWL451LGC332MED0M
12,000	89 × 190	0.25	32.0	ERWL351LGC123MFK0M	3,900	63.5 × 170		0.25	14.4	ERWL451LGC392MDH0M		
400	2,700	63.5 × 115	0.25	10.1	ERWL401LGC272MDB5M	4,700		76.2 × 155	0.25	16.7	ERWL451LGC472MEF5M	
	3,300	63.5 × 130	0.25	11.7	ERWL401LGC332MDD0M	5,600		76.2 × 190	0.25	20.1	ERWL451LGC562MEK0M	
	3,900	63.5 × 155	0.25	13.8	ERWL401LGC392MDF5M	5,600		89 × 155	0.25	19.9	ERWL451LGC562MFF5M	
	3,900	76.2 × 115	0.25	14.7	ERWL401LGC392MEB5M	6,800		89 × 170	0.25	23.0	ERWL451LGC682MFH0M	
	4,700	63.5 × 170	0.25	15.8	ERWL401LGC472MDH0M	8,200	89 × 190	0.25	26.4	ERWL451LGC822MFK0M		
	4,700	76.2 × 130	0.25	15.5	ERWL401LGC472MED0M							

◆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 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 RWL 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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