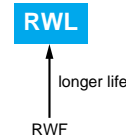


RWL Series

- High ripple capability
- For train systems and high power consumed inverter circuits
- Endurance with ripple current : 85°C 20000 hours



◆ SPECIFICATIONS

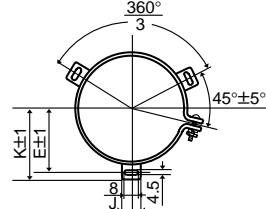
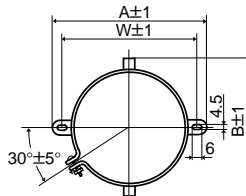
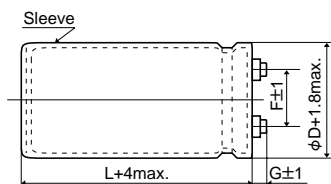
Items	Characteristics						
Category Temperature Range	-25 to +85°C						
Rated Voltage Range	350 to 450V _{dc}						
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)						
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated 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 20000 hours at 85°C. <table border="1" style="width: 100%;"> <tr> <td>Capacitance change</td> <td>≤±30% of the initial value</td> </tr> <tr> <td>D.F. (tanδ)</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. (tanδ)	≤300% of the initial specified value	Leakage current	≤The initial specified value
Capacitance change	≤±30% of the initial value						
D.F. (tanδ)	≤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. <table border="1" style="width: 100%;"> <tr> <td>Capacitance change</td> <td>≤±20% of the initial value</td> </tr> <tr> <td>D.F. (tanδ)</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. (tanδ)	≤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

● Mounting Clamp Code : B

● Mounting Clamp Code : C



φ63.5 : G=6
φ76 & φ89 : G=5

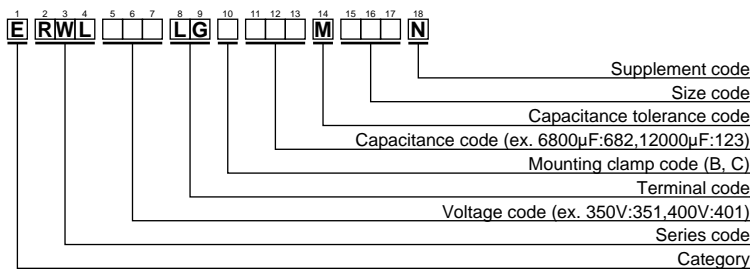
φD	A	B	W	F
63.5	90	76	80	28.0
76	104.5	90	93.5	31.5

φD	E	K	F	J
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

<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)"



RWL Series

◆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	3300	63.5 × 115	0.25	11.1	ERWL351LGC332MDB5N	400	5600	63.5 × 190	0.25	18.2	ERWL401LGC562MDK0N	
	3900	63.5 × 130	0.25	12.8	ERWL351LGC392MDD0N		5600	76 × 155	0.25	18.3	ERWL401LGC562MEF5N	
	4700	63.5 × 155	0.25	15.2	ERWL351LGC472MDF5N		6800	76 × 170	0.25	21.0	ERWL401LGC682MEH0N	
	4700	76 × 115	0.25	14.7	ERWL351LGC472MEB5N		8200	89 × 155	0.25	24.1	ERWL401LGC822MFF5N	
	5600	63.5 × 170	0.25	17.3	ERWL351LGC562MDH0N		10000	89 × 190	0.25	29.1	ERWL401LGC103MFK0N	
	5600	76 × 130	0.25	16.9	ERWL351LGC562MED0N		450	2200	63.5 × 115	0.25	9.1	ERWL451LGC222MDB5N
	6800	63.5 × 190	0.25	20.0	ERWL351LGC682MDK0N			2700	63.5 × 130	0.25	10.6	ERWL451LGC272MDD0N
	6800	76 × 155	0.25	20.2	ERWL351LGC682MEF5N			2700	76 × 115	0.25	11.2	ERWL451LGC272MEB5N
	8200	76 × 170	0.25	23.1	ERWL351LGC822MEH0N			3300	63.5 × 155	0.25	12.7	ERWL451LGC332MDF5N
	10000	89 × 155	0.25	26.6	ERWL351LGC103MFF5N			3300	76 × 130	0.25	13.0	ERWL451LGC332MED0N
	12000	89 × 190	0.25	32.0	ERWL351LGC123MFK0N			3900	63.5 × 170	0.25	14.4	ERWL451LGC392MDH0N
400	2700	63.5 × 115	0.25	10.1	ERWL401LGC272MDB5N	4700		76 × 155	0.25	16.7	ERWL451LGC472MEF5N	
	3300	63.5 × 130	0.25	11.7	ERWL401LGC332MDD0N	5600		76 × 190	0.25	20.1	ERWL451LGC562MEK0N	
	3900	63.5 × 155	0.25	13.8	ERWL401LGC392MDF5N	5600		89 × 155	0.25	19.9	ERWL451LGC562MFF5N	
	3900	76 × 115	0.25	14.7	ERWL401LGC392MEB5N	6800		89 × 170	0.25	23.0	ERWL451LGC682MFH0N	
	4700	63.5 × 170	0.25	15.8	ERWL401LGC472MDH0N	8200	89 × 190	0.25	26.4	ERWL451LGC822MFK0N		
	4700	76 × 130	0.25	15.5	ERWL401LGC472MED0N							

◆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 RWL 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.