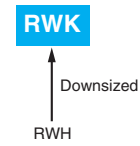


RWK New!
Series

- Downsized and high ripple current from RWH series
- Endurance with ripple current : 5,000 hours at 85°C
- RoHS2 Compliant

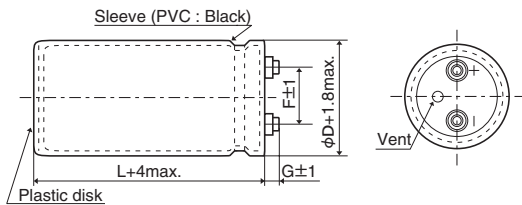


◆ SPECIFICATIONS

Items	Characteristics						
Category							
Temperature Range	-40 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 (tan δ)	0.15 max. (at 20°C, 120Hz)						
Low Temperature Characteristics	Capacitance change $C(-25^{\circ}\text{C})/C(+20^{\circ}\text{C}) \geq 0.7$ (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 _{dc} , the insulation resistance shall not be less than 100MΩ.						
Insulation Withstanding Voltage	When a voltage of 2,000V _{ac} 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 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. (tan δ)</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. (tan δ)	≤ 200% of the initial specified value	Leakage current	≤ The initial specified value
Capacitance change	≤ ±20% of the initial value						
D.F. (tan δ)	≤ 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. 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>≤ 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. (tan δ)	≤ 200% of the initial specified value	Leakage current	≤ The initial specified value
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Leakage current	≤ The initial specified value						

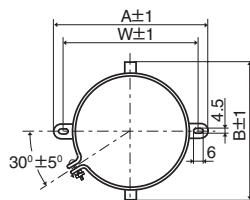
◆ DIMENSIONS (Screw-Mount) [mm]

● Terminal Code : LG



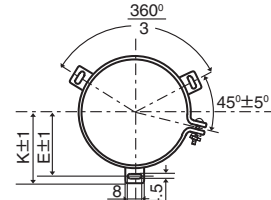
φ63.5, φ76.2 : G=6
φ89 : G=4

● 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

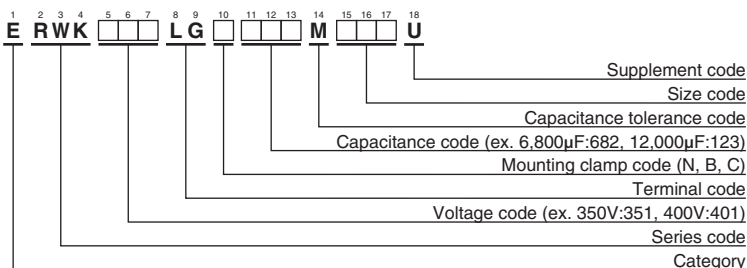
<Screw specifications>

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)"

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/85°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/85°C, 120Hz)	Part No.
350	3,900	63.5 × 105	0.15	18.1	ERWK351LGC392MDA5U	400	3,300	63.5 × 105	0.15	16.6	ERWK401LGC332MDA5U
	4,700	63.5 × 125	0.15	21.5	ERWK351LGC472MDC5U		3,900	63.5 × 125	0.15	19.4	ERWK401LGC392MDC5U
	5,600	63.5 × 145	0.15	25.0	ERWK351LGC562MDE5U		4,700	63.5 × 145	0.15	22.8	ERWK401LGC472MDE5U
	5,600	76.2 × 105	0.15	23.5	ERWK351LGC562MEA5U		4,700	76.2 × 105	0.15	21.4	ERWK401LGC472MEA5U
	6,800	63.5 × 185	0.15	30.8	ERWK351LGC682MDJ5U		5,600	76.2 × 125	0.15	25.2	ERWK401LGC562MEC5U
	6,800	76.2 × 125	0.15	27.9	ERWK351LGC682MEC5U		6,800	76.2 × 145	0.15	29.6	ERWK401LGC682MEE5U
	8,200	76.2 × 145	0.15	32.7	ERWK351LGC822MEE5U		8,200	89 × 130	0.15	31.0	ERWK401LGC822MFD0U
	10,000	76.2 × 185	0.15	40.3	ERWK351LGC103MEJ5U		10,000	89 × 150	0.15	36.9	ERWK401LGC103MFF0U
	10,000	89 × 130	0.15	34.4	ERWK351LGC103MFD0U		12,000	89 × 190	0.15	44.3	ERWK401LGC123MFK0U
	12,000	89 × 150	0.15	40.1	ERWK351LGC123MFF0U		450	2,700	63.5 × 105	0.15	15.0
375	3,300	63.5 × 105	0.15	16.6	ERWK3H1LGC332MDA5U	3,300		63.5 × 125	0.15	18.0	ERWK451LGC332MDC5U
	3,900	63.5 × 125	0.15	19.4	ERWK3H1LGC392MDC5U	3,900		63.5 × 145	0.15	20.9	ERWK451LGC392MDE5U
	4,700	63.5 × 145	0.15	22.8	ERWK3H1LGC472MDE5U	3,900		76.2 × 105	0.15	19.6	ERWK451LGC392MEA5U
	4,700	76.2 × 105	0.15	21.4	ERWK3H1LGC472MEA5U	4,700		63.5 × 185	0.15	25.6	ERWK451LGC472MDJ5U
	5,600	76.2 × 125	0.15	25.2	ERWK3H1LGC562MEC5U	4,700		76.2 × 125	0.15	23.2	ERWK451LGC472MEC5U
	6,800	63.5 × 185	0.15	30.7	ERWK3H1LGC682MDJ5U	5,600		76.2 × 145	0.15	27.0	ERWK451LGC562MEE5U
	6,800	76.2 × 145	0.15	29.6	ERWK3H1LGC682MEE5U	6,800		89 × 130	0.15	28.3	ERWK451LGC682MFD0U
	6,800	89 × 110	0.15	26.3	ERWK3H1LGC682MFB0U	8,200		89 × 150	0.15	33.1	ERWK451LGC822MFF0U
	8,200	89 × 130	0.15	31.0	ERWK3H1LGC822MFD0U	10,000		89 × 190	0.15	40.6	ERWK451LGC103MFK0U
	10,000	76.2 × 185	0.15	40.0	ERWK3H1LGC103MEJ5U						
10,000	89 × 150	0.15	36.4	ERWK3H1LGC103MFF0U							
12,000	89 × 190	0.15	44.3	ERWK3H1LGC123MFK0U							

◆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 the RWK 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.