

# RWE Series

- Rated voltage range : 350 to 550V<sub>dc</sub>
- Endurance with ripple current : 85°C 2,000 hours
- RoHS2 Compliant

RWF P7-12  
↑  
Longer life  
**RWE**

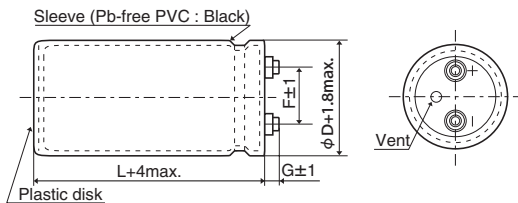


## ◆ SPECIFICATIONS

Items	Characteristics			
Category	-25 to +85°C			
Temperature Range	-25 to +85°C			
Rated Voltage Range	350 to 550V <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	Rated Voltage (V <sub>dc</sub> )	350 to 450V	500 & 550V
		C(-25°C)/C(+20°C)	≥0.7	≥0.6
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 2,000 hours at 85°C.			
	Capacitance change	≤ ±20% of the initial value		
	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.			
	Capacitance change	≤ ±20% of the initial value		
	D.F. (tan δ)	≤ 300% of the initial specified value		
	Leakage current	≤ The initial specified value		

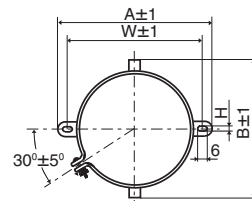
## ◆ DIMENSIONS (Screw-Mount) [mm]

● Terminal Code : LG



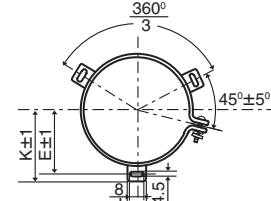
φ35 to φ63.5 : G=6  
φ76.2 & φ89 : G=5

● Mounting Clamp Code : B



φD	A	B	W	H	F
35	58.0	44.0	48.0	3.5	12.7
50	78.0	64.0	68.0	4.5	22.4
63.5	90.0	76.0	80.0	4.5	28.0
76.2	104.5	90.0	93.5	4.5	31.5

● Mounting Clamp Code : C



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

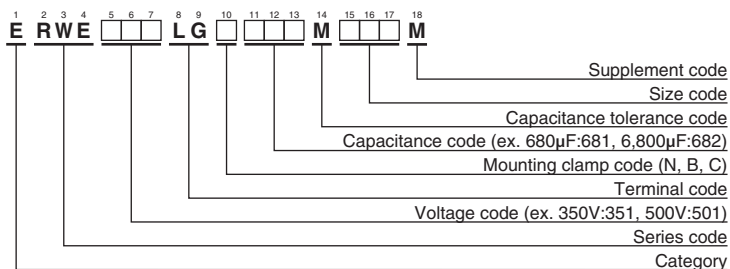
<Screw specifications>

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 <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	390	35 × 50	0.25	1.90	ERWE351LGB391MA50M	450	2,700	63.5 × 115	0.25	8.60	ERWE451LGC272MDB5M	
	680	35 × 80	0.25	2.90	ERWE351LGB681MA80M		3,300	63.5 × 130	0.25	10.0	ERWE451LGC332MDD0M	
	1,000	35 × 100	0.25	3.80	ERWE351LGB102MAA0M		3,300	76.2 × 96	0.25	9.80	ERWE451LGC332ME96M	
	1,200	35 × 120	0.25	4.20	ERWE351LGB122MAC0M		3,900	76.2 × 115	0.25	11.5	ERWE451LGC392MEB5M	
	1,500	50 × 75	0.25	4.70	ERWE351LGC152MC75M		4,700	76.2 × 130	0.25	13.3	ERWE451LGC472MED0M	
	2,200	50 × 96	0.25	6.30	ERWE351LGC222MC96M		5,600	76.2 × 155	0.25	15.7	ERWE451LGC562MEF5M	
	3,300	50 × 130	0.25	8.80	ERWE351LGC332MCD0M		8,200	89 × 155	0.25	18.6	ERWE451LGC822MFF5M	
	3,300	63.5 × 96	0.25	8.80	ERWE351LGC332MD96M		500	120	35 × 50	0.25	0.70	ERWE501LGB121MA50M
	3,900	63.5 × 115	0.25	10.3	ERWE351LGC392MDB5M			270	35 × 80	0.25	1.20	ERWE501LGB271MA80M
	4,700	63.5 × 130	0.25	12.0	ERWE351LGC472MDD0M			330	35 × 100	0.25	1.40	ERWE501LGB331MAA0M
	4,700	76.2 × 96	0.25	11.7	ERWE351LGC472ME96M			390	35 × 120	0.25	1.70	ERWE501LGB391MAC0M
	5,600	76.2 × 115	0.25	12.6	ERWE351LGC562MEB5M			470	50 × 75	0.25	1.80	ERWE501LGC471MC75M
	6,800	76.2 × 130	0.25	15.9	ERWE351LGC682MED0M			680	50 × 96	0.25	2.50	ERWE501LGC681MC96M
	8,200	76.2 × 155	0.25	19.0	ERWE351LGC822MEF5M			820	50 × 115	0.25	2.90	ERWE501LGC821MCB5M
12,000	89 × 155	0.25	22.5	ERWE351LGC123MFF5M	1,000	50 × 130		0.25	3.40	ERWE501LGC102MCD0M		
400	330	35 × 50	0.25	1.70	ERWE401LGB331MA50M	1,000		63.5 × 96	0.25	3.40	ERWE501LGC102MD96M	
	560	35 × 80	0.25	2.70	ERWE401LGB561MA80M	1,500		63.5 × 115	0.25	4.50	ERWE501LGC152MDB5M	
	820	35 × 100	0.25	3.40	ERWE401LGB821MAA0M	1,500		76.2 × 96	0.25	4.60	ERWE501LGC152ME96M	
	1,000	35 × 120	0.25	3.90	ERWE401LGB102MAC0M	1,800		63.5 × 130	0.25	5.20	ERWE501LGC182MDD0M	
	1,200	50 × 75	0.25	4.20	ERWE401LGC122MC75M	2,200		76.2 × 115	0.25	6.10	ERWE501LGC222MEB5M	
	1,800	50 × 96	0.25	5.70	ERWE401LGC182MC96M	2,700		76.2 × 155	0.25	7.70	ERWE501LGC272MEF5M	
	2,200	50 × 130	0.25	7.20	ERWE401LGC222MCD0M	3,900	89 × 155	0.25	10.1	ERWE501LGC392MFF5M		
	2,700	63.5 × 96	0.25	7.90	ERWE401LGC272MD96M	550	100	35 × 50	0.25	0.60	ERWE551LGB101MA50M	
	3,300	63.5 × 115	0.25	9.50	ERWE401LGC332MDB5M		180	35 × 80	0.25	1.00	ERWE551LGB181MA80M	
	3,900	63.5 × 130	0.25	10.9	ERWE401LGC392MDD0M		270	35 × 100	0.25	1.30	ERWE551LGB271MAA0M	
	3,900	76.2 × 96	0.25	10.6	ERWE401LGC392ME96M		330	35 × 120	0.25	1.60	ERWE551LGB331MAC0M	
	4,700	76.2 × 115	0.25	12.6	ERWE401LGC472MEB5M		390	50 × 75	0.25	1.70	ERWE551LGC391MC75M	
	5,600	76.2 × 130	0.25	14.5	ERWE401LGC562MED0M		560	50 × 96	0.25	2.10	ERWE551LGC561MC96M	
	6,800	76.2 × 155	0.25	17.3	ERWE401LGC682MEF5M		560	63.5 × 96	0.25	2.50	ERWE551LGC561MD96M	
10,000	89 × 155	0.25	20.5	ERWE401LGC103MFF5M	680		50 × 115	0.25	2.70	ERWE551LGC681MCB5M		
450	270	35 × 50	0.25	1.60	ERWE451LGB271MA50M		680	63.5 × 115	0.25	3.00	ERWE551LGC681MDB5M	
	470	35 × 80	0.25	2.40	ERWE451LGB471MA80M		820	50 × 130	0.25	3.10	ERWE551LGC821MCD0M	
	680	35 × 100	0.25	3.10	ERWE451LGB681MAA0M		820	63.5 × 130	0.25	3.50	ERWE551LGC821MDD0M	
	820	35 × 120	0.25	3.50	ERWE451LGB821MAC0M		1,200	76.2 × 96	0.25	4.20	ERWE551LGC122ME96M	
	1,000	50 × 75	0.25	3.90	ERWE451LGC102MC75M		1,500	76.2 × 115	0.25	5.00	ERWE551LGC152MEB5M	
	1,200	50 × 96	0.25	4.70	ERWE451LGC122MC96M		1,800	76.2 × 130	0.25	5.80	ERWE551LGC182MED0M	
	1,500	50 × 115	0.25	5.60	ERWE451LGC152MCB5M	2,200	76.2 × 155	0.25	7.00	ERWE551LGC222MEF5M		
	1,800	50 × 130	0.25	6.50	ERWE451LGC182MCD0M	3,300	89 × 155	0.25	9.30	ERWE551LGC332MFF5M		
	2,200	63.5 × 96	0.25	7.20	ERWE451LGC222MD96M							

◆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 RWE 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.