Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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RWF Series

- High ripple capability
- Endurance with ripple current : 5,000 hours at 85℃
- Wide range of case sizes from φ50 to φ100
- RoHS2 Compliant

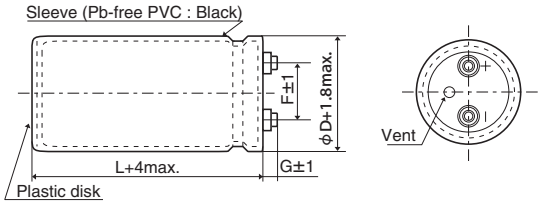
RWH P7-10 ← RWF → RWE P7-18
Downsized, Higher ripple current / Longer life

◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-25 to +85℃	
Rated Voltage Range	350 to 450V_{dc}	
Capacitance Tolerance	±20% (M)	(at 20℃, 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℃ after 5 minutes)
Dissipation Factor (tan δ)	0.25 max.	(at 20℃, 120Hz)
Low Temperature Characteristics	Capacitance change C(-25℃)/C(+20℃)≧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℃ 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℃.	
	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℃ after exposing them for 500 hours at 85℃ 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)	≦200% of the initial specified value
	Leakage current	≦The initial specified value

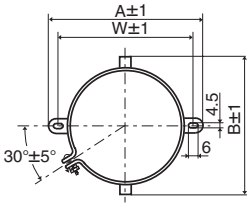
◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code : LG



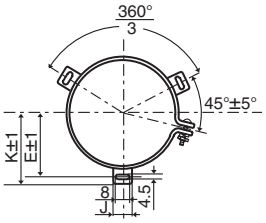
φ50 & φ63.5 : G=6
φ76.2 & φ89 : G=5
φ100 : G=10

●Mounting Clamp Code : B



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

●Mounting Clamp Code : C



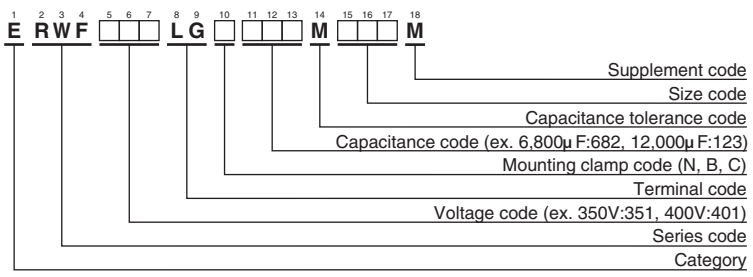
φD	E	K	F	J
50	32.5	37.0	22.4	14.0
63.5	38.1	43.5	28.0	14.0
76.2	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0
100	56.5	63.4	41.5	18.0

<Screw specifications>
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

* 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)"

RWF Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85℃, 120Hz)	Part No.
350	1,200	50 × 60	0.25	4.90	ERWF351LGC122MC60M
	1,800	50 × 75	0.25	6.50	ERWF351LGC182MC75M
	2,200	50 × 85	0.25	7.50	ERWF351LGC222MC85M
	2,200	50 × 96	0.25	7.70	ERWF351LGC222MC96M
	2,700	50 × 115	0.25	9.30	ERWF351LGC272MCB5M
	3,300	50 × 130	0.25	10.8	ERWF351LGC332MCD0M
	3,900	63.5 × 115	0.25	12.1	ERWF351LGC392MDB5M
	4,700	63.5 × 130	0.25	14.0	ERWF351LGC472MDD0M
	5,600	63.5 × 155	0.25	16.6	ERWF351LGC562MDF5M
	5,600	76.2 × 115	0.25	16.1	ERWF351LGC562MEB5M
	6,800	63.5 × 190	0.25	20.0	ERWF351LGC682MDK0M
	6,800	76.2 × 130	0.25	18.6	ERWF351LGC682MED0M
	8,200	76.2 × 155	0.25	22.2	ERWF351LGC822MEF5M
	10,000	76.2 × 170	0.25	25.2	ERWF351LGC103MEH0M
	12,000	89 × 155	0.25	29.1	ERWF351LGC123MFF5M
	15,000	89 × 190	0.25	35.7	ERWF351LGC153MFK0M
	18,000	100 × 190	0.25	36.9	ERWF351LGC183MGK0M
	22,000	100 × 250	0.25	46.1	ERWF351LGC223MGR0M
400	1,000	50 × 60	0.25	4.40	ERWF401LGC102MC60M
	1,500	50 × 75	0.25	5.90	ERWF401LGC152MC75M
	1,800	50 × 85	0.25	6.80	ERWF401LGC182MC85M
	1,800	50 × 96	0.25	7.00	ERWF401LGC182MC96M
	2,200	50 × 105	0.25	8.00	ERWF401LGC222MCA5M
	2,700	50 × 130	0.25	9.80	ERWF401LGC272MCD0M
	3,300	63.5 × 115	0.25	11.1	ERWF401LGC332MDB5M
	3,900	63.5 × 130	0.25	12.7	ERWF401LGC392MDD0M
	4,700	63.5 × 155	0.25	15.2	ERWF401LGC472MDF5M
	4,700	76.2 × 115	0.25	14.7	ERWF401LGC472MEB5M

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85℃, 120Hz)	Part No.
400	5,600	63.5 × 190	0.25	18.2	ERWF401LGC562MDK0M
	5,600	76.2 × 130	0.25	16.9	ERWF401LGC562MED0M
	6,800	76.2 × 155	0.25	20.2	ERWF401LGC682MEF5M
	8,200	76.2 × 170	0.25	22.8	ERWF401LGC822MEH0M
	10,000	89 × 155	0.25	26.6	ERWF401LGC103MFF5M
	12,000	89 × 170	0.25	30.0	ERWF401LGC123MFH0M
	15,000	100 × 190	0.25	33.7	ERWF401LGC153MGK0M
	18,000	100 × 220	0.25	37.4	ERWF401LGC183MGN0M
450	820	50 × 60	0.25	4.00	ERWF451LGC821MC60M
	1,000	50 × 75	0.25	4.80	ERWF451LGC102MC75M
	1,200	50 × 85	0.25	5.60	ERWF451LGC122MC85M
	1,200	50 × 96	0.25	5.70	ERWF451LGC122MC96M
	1,500	50 × 96	0.25	6.30	ERWF451LGC152MC96M
	1,800	50 × 115	0.25	7.60	ERWF451LGC182MCB5M
	2,200	50 × 130	0.25	8.80	ERWF451LGC222MCD0M
	2,700	63.5 × 115	0.25	10.1	ERWF451LGC272MDB5M
	3,300	63.5 × 130	0.25	11.7	ERWF451LGC332MDD0M
	3,900	63.5 × 155	0.25	13.8	ERWF451LGC392MDF5M
	3,900	76.2 × 115	0.25	13.4	ERWF451LGC392MEB5M
	4,700	63.5 × 190	0.25	16.7	ERWF451LGC472MDK0M
	4,700	76.2 × 130	0.25	15.5	ERWF451LGC472MED0M
	5,600	76.2 × 155	0.25	18.3	ERWF451LGC562MEF5M
	6,800	76.2 × 170	0.25	20.7	ERWF451LGC682MEH0M
	8,200	89 × 155	0.25	24.1	ERWF451LGC822MFF5M
	10,000	89 × 170	0.25	27.8	ERWF451LGC103MFH0M
	12,000	100 × 190	0.25	29.3	ERWF451LGC123MGK0M
	15,000	100 × 250	0.25	37.0	ERWF451LGC153MGR0M

◆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℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced. Also, for the RWF 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.