RWU New! Series

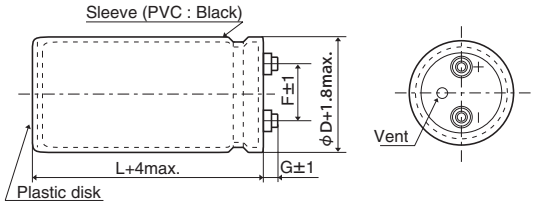
- Higher capacitance than RWE series.
- Endurance with ripple current: 2,000 hours at 85°C
- Suitable for UPS devices and servo press machines where higher capacitance is required.
- RoHS2 compliant

◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-40 to +85℃	
Rated Voltage Range	400 & 450V_{dc}	
Capacitance Tolerance	±20% (M)	(at 20℃, 120Hz)
Leakage Current	I=0.01CV or 7mA, 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 2,000 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

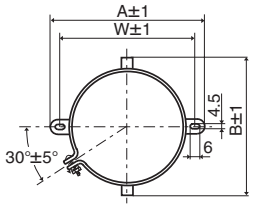
◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code : LG



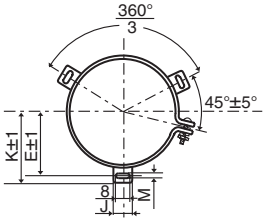
φ63.5 : G=6
φ76.2 & φ89 : G=5
φ100 : G=10

●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 : Standard



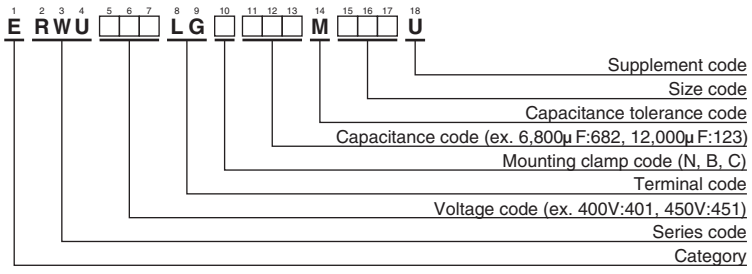
φD	E	K	M	F	J
63.5	38.1	43.5	4.5	28.0	14.0
76.2	44.5	50.0	4.5	31.5	14.0
89	50.8	56.5	4.5	31.5	16.0
100	56.5	63.4	5.5	41.5	18.0

<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)"

RWU New! Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85℃,120Hz)	Part No.
400	2,200	63.5×60	0.25	5.2	ERWU401LGC222MD60U
	2,700	63.5×70	0.25	6.1	ERWU401LGC272MD70U
	3,300	63.5×80	0.25	7.2	ERWU401LGC332MD80U
	3,900	63.5×85	0.25	8.0	ERWU401LGC392MD85U
	4,700	63.5×100	0.25	9.4	ERWU401LGC472MDA0U
	5,600	63.5×115	0.25	10.0	ERWU401LGC562MDB5U
	6,800	63.5×130	0.25	11.7	ERWU401LGC682MDD0U
	8,200	63.5×155	0.25	13.1	ERWU401LGC822MDF5U
	8,200	76.2×110	0.25	12.5	ERWU401LGC822MEB0U
	10,000	76.2×130	0.25	14.8	ERWU401LGC103MED0U
	12,000	76.2×150	0.25	16.6	ERWU401LGC123MEF0U
	15,000	89×140	0.25	16.6	ERWU401LGC153MFE0U
	18,000	89×165	0.25	19.1	ERWU401LGC183MFG5U
	20,000	89×200	0.25	21.9	ERWU401LGC203MFL0U
	20,000	100×160	0.25	21.2	ERWU401LGC203MGG0U
	25,000	100×210	0.25	26.1	ERWU401LGC253MGM0U
	30,000	100×235	0.25	29.7	ERWU401LGC303MGP5U
	35,000	100×270	0.25	33.8	ERWU401LGC353MGT0U

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85℃,120Hz)	Part No.
450	2,200	63.5×70	0.25	5.3	ERWU451LGC222MD70U
	2,700	63.5×75	0.25	6.1	ERWU451LGC272MD75U
	3,300	63.5×90	0.25	7.3	ERWU451LGC332MD90U
	3,900	63.5×100	0.25	8.3	ERWU451LGC392MDA0U
	4,700	63.5×115	0.25	9.6	ERWU451LGC472MDB5U
	5,600	63.5×130	0.25	10.3	ERWU451LGC562MDD0U
	6,800	63.5×150	0.25	12.1	ERWU451LGC682MDF0U
	8,200	76.2×130	0.25	12.9	ERWU451LGC822MED0U
	10,000	76.2×150	0.25	15.1	ERWU451LGC103MEF0U
	12,000	76.2×175	0.25	17.1	ERWU451LGC123MEH5U
	12,000	89×135	0.25	14.1	ERWU451LGC123MFD5U
	15,000	89×160	0.25	17.0	ERWU451LGC153MFG0U
	18,000	89×205	0.25	20.3	ERWU451LGC183MFL5U
	20,000	89×230	0.25	22.5	ERWU451LGC203MFP0U
	25,000	100×230	0.25	26.1	ERWU451LGC253MGP0U
	30,000	100×270	0.25	30.5	ERWU451LGC303MGT0U

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency (Hz)	50	120	300	1k	3k
Coefficient	0.8	1.0	1.1	1.2	1.2

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 RWU 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.