

- ODownsized and high ripple current from RWG series
- Endurance with ripple current: 5,000 hours at 85°C
- RoHS Compliant



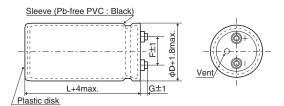


## **SPECIFICATIONS**

Items	Characteristics							
Category Temperature Range	-25 to +85℃							
Rated Voltage Range	350 to 450V <sub>dc</sub>							
Capacitance Tolerance	±20% (M)			(at 20℃, 120Hz)				
Leakage Current	I=0.02CV or 5mA, which							
	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.	0.25 max. (at 20°C, 120Hz)						
Low Temperature Characteristics	Capacitance change C(	Capacitance change C(-25°C)/C(+20°C)≧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 $100M\Omega$ .						
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		ns shall be satisfied when the capacitors the peak voltage shall not exceed the rate $\leq \pm 20\%$ of the initial value $\leq 200\%$ of the initial specified value		DC voltage with the rated				
Useful life	0 1	ns shall be satisfied when the capacitors the peak voltage shall not exceed the rate $\leq \pm 30\%$ of the initial value $\leq 300\%$ of the initial specified value $\leq 1\%$	•	DC voltage with the rated				
Shelf Life		s shall be satisfied when the capacitors are measurement, the capacitor shall be prec ≤±20% of the initial value ≤200% of the initial specified value ≤The initial specified value						

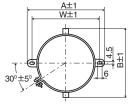
# **◆DIMENSIONS (Screw-Mount) [mm]**

●Terminal Code: LG



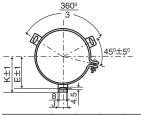
 $\phi$ 63.5,  $\phi$ 76.2 : G=6  $\phi$ 89 : G=4

### •Mounting Clamp Code : B



φD	Α	В	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	Е	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	

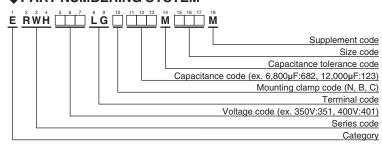
## <Screw specifcations>

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.
	4,700	63.5 × 105	0.25	16.3	ERWH351LGC472MDA5M
	5,600	63.5 × 125	0.25	19.2	ERWH351LGC562MDC5M
	6,800	63.5 × 145	0.25	22.6	ERWH351LGC682MDE5M
	6,800	76.2 × 105	0.25	21.7	ERWH351LGC682MEA5M
350	8,200	63.5 × 165	0.25	26.3	ERWH351LGC822MDG5M
	8,200	76.2 × 120	0.25	25.2	ERWH351LGC822MEC0M
	10,000	76.2 × 140	0.25	29.8	ERWH351LGC103MEE0M
	12,000	76.2 × 165	0.25	35.1	ERWH351LGC123MEG5M
	15,000	89 × 155	0.25	37.5	ERWH351LGC153MFF5M
	18,000	89 × 180	0.25	43.8	ERWH351LGC183MFJ0M
	3,900	63.5 × 100	0.25	14.5	ERWH401LGC392MDA0M
400	4,700	63.5 × 120	0.25	17.2	ERWH401LGC472MDC0M
	5,600	63.5 × 135	0.25	19.8	ERWH401LGC562MDD5M
	5,600	76.2 × 105	0.25	19.7	ERWH401LGC562MEA5M
	6,800	63.5 × 160	0.25	23.5	ERWH401LGC682MDG0M
	6,800	76.2 × 115	0.25	22.5	ERWH401LGC682MEB5M

WV (V <sub>dc</sub> )	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85°C, 120Hz)	Part No.
	8,200	$76.2 \times 135$	0.25	26.5	ERWH401LGC822MED5M
	10,000	$76.2 \times 160$	0.25	31.6	ERWH401LGC103MEG0M
400	10,000	89 × 130	0.25	28.3	ERWH401LGC103MFD0M
	12,000	89 × 150	0.25	33.0	ERWH401LGC123MFF0M
	15,000	89 × 180	0.25	39.9	ERWH401LGC153MFJ0M
	3,300	63.5 × 105	0.25	13.6	ERWH451LGC332MDA5M
	3,900	63.5 × 125	0.25	16.0	ERWH451LGC392MDC5M
	4,700	$63.5 \times 145$	0.25	18.7	ERWH451LGC472MDE5M
	4,700	$76.2 \times 105$	0.25	18.0	ERWH451LGC472MEA5M
	5,600	63.5 × 165	0.25	21.7	ERWH451LGC562MDG5M
450	5,600	76.2 × 120	0.25	20.8	ERWH451LGC562MEC0M
	6,800	76.2 × 140	0.25	24.5	ERWH451LGC682MEE0M
	8,200	76.2 × 165	0.25	29.0	ERWH451LGC822MEG5M
	8,200	89 × 135	0.25	26.1	ERWH451LGC822MFD5M
	10,000	89 × 155	0.25	30.5	ERWH451LGC103MFF5M
	12,000	89 × 190	0.25	36.6	ERWH451LGC123MFK0M

## **◆RATED RIPPLE CURRENT MULTIPLIERS**

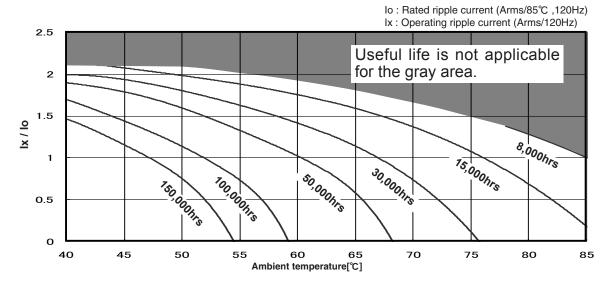
### Frequency Multipliers

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 RWH 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.

## **♦**USEFUL LIFE

Useful life depending on the ambient temperature Tx under ripple current operating conditions



# Warning!

Useful life shall indicate the end of the life time without exceeding the specified failure rate. It's generally known that Aluminum Electrolytic Capacitors have wear-out failure mode with gradual deteriorate of the electrical parameters and should have large number of the failure rate at the end of life. The useful life time is specified by a certain failure rate.

It's not a guaranteed specification.

Generally the maximum life time is 15 years (131,000hours) considering sealing material deteriorate. When a longer life time is required for your application, please consult us.