EWL Series

- Useful life with ripple current : 15,000 hours at 85℃
- Endurance with ripple current : 2,000 hours at 85℃
- **RoHS Compliant**

◆SPECIFICATIONS

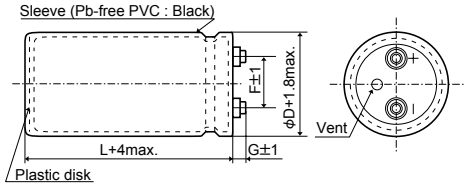
Items	Characteristics
Category Temperature Range	−25 to +85℃
Rated Voltage Range	315 to 450Vdc
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 5 minutes)
Dissipation Factor (tanδ)	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 shorted each other and the mounting clamp on the insulating sleeve covering the case by using an insulation resistance meter of 500Vdc, the insulation resistance shall not be less than 100MΩ.
Insulation Withstanding Voltage	When a voltage of 2,000Vac is applied for 1 minute between the terminals shorted each other and 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 for 2,000 hours at 85℃. Capacitance change: ≦±20% of the initial value D.F. (tanδ): ≦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. (tanδ): ≦200% of the initial specified value Leakage current: ≦The initial specified value

◆USEFUL LIFE

Items	Characteristics
Useful life	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 for 15,000 hours at 85℃. Capacitance change: ≦±30% of the initial value D.F. (tanδ): ≦300% of the initial specified value Leakage current: ≦The initial specified value Failure rate: ≦1%

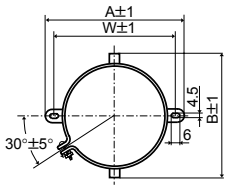
◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code : LG



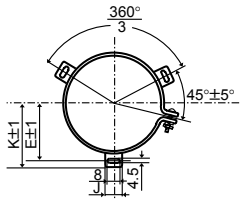
ϕ63.5 : G=6
ϕ76.2 & ϕ89 : G=5

●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

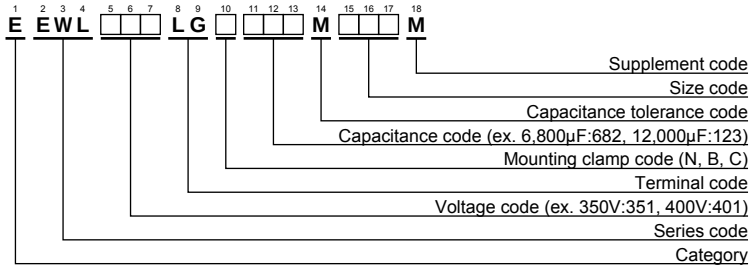


ϕD	E	K	F	J
63.5	38.1	43.5	28.0	14.0
76.2	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0

<Screw specif cations>
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



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EWL Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 85℃,120Hz)	Part No.
315	4,700	63.5×115	0.25	10.7	EEWL3B1LGC472MDB5M
	5,600	63.5×130	0.25	12.1	EEWL3B1LGC562MDD0M
	5,600	63.5×155	0.25	12.7	EEWL3B1LGC562MDF5M
	8,200	76.2×130	0.25	15.6	EEWL3B1LGC822MED0M
	8,200	76.2×155	0.25	16.2	EEWL3B1LGC822MEF5M
	10,000	76.2×170	0.25	19.1	EEWL3B1LGC103MEH0M
	12,000	89×155	0.25	17.6	EEWL3B1LGC123MFF5M
	15,000	89×170	0.25	20.4	EEWL3B1LGC153MFH0M
350	3,900	63.5×115	0.25	9.9	EEWL351LGC392MDB5M
	4,700	63.5×130	0.25	11.2	EEWL351LGC472MDD0M
	5,600	63.5×155	0.25	12.7	EEWL351LGC562MDF5M
	6,800	76.2×130	0.25	14.4	EEWL351LGC682MED0M
	8,200	76.2×155	0.25	16.2	EEWL351LGC822MEF5M
	10,000	76.2×170	0.25	19.1	EEWL351LGC103MEH0M
	10,000	89×155	0.25	16.3	EEWL351LGC103MFF5M
	12,000	89×170	0.25	18.6	EEWL351LGC123MFH0M

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 85℃,120Hz)	Part No.
400	3,300	63.5×115	0.25	9.2	EEWL401LGC332MDB5M
	3,900	63.5×130	0.25	10.4	EEWL401LGC392MDD0M
	3,900	63.5×155	0.25	11.0	EEWL401LGC392MDF5M
	5,600	76.2×130	0.25	13.3	EEWL401LGC562MED0M
	6,800	76.2×155	0.25	15.0	EEWL401LGC682MEF5M
	8,200	76.2×170	0.25	17.6	EEWL401LGC822MEH0M
	8,200	89×155	0.25	15.0	EEWL401LGC822MFF5M
	10,000	89×170	0.25	17.3	EEWL401LGC103MFH0M
450	2,700	63.5×115	0.25	8.3	EEWL451LGC272MDB5M
	3,300	63.5×130	0.25	9.5	EEWL451LGC332MDD0M
	3,900	63.5×155	0.25	10.7	EEWL451LGC392MDF5M
	4,700	76.2×130	0.25	12.1	EEWL451LGC472MED0M
	5,600	76.2×155	0.25	13.6	EEWL451LGC562MEF5M
	6,800	76.2×170	0.25	15.9	EEWL451LGC682MEH0M
	6,800	89×155	0.25	13.6	EEWL451LGC682MFF5M
	8,200	89×170	0.25	15.6	EEWL451LGC822MFH0M

◆RATED RIPPLE CURRENT MULTIPLIERS

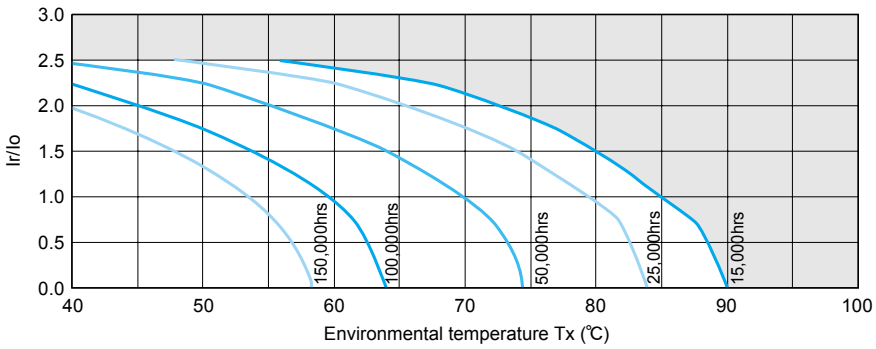
●Frequency Multipliers

Frequency (Hz)	50	120	300	1k	3k
Coefficient	0.8	1.0	1.1	1.3	1.4

Note : The endurancce of capacitors is reduced with inter nal heating produced b y ripple currents at the r ate of halving the lif etime with e very 5 to 10 ℃ ri se. When long lif e performance is required in actual use , the r ms r ipple current has to be reduced.

◆USEFUL LIFE

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



Ir :Operating ripple current
Io :Rated ripple current (85℃, 120Hz)

Useful life
85 ℃, 15,000hours
[After useful life specifications]
Capacitance change ≦±30% of the initial value
D .F. (tanδ) ≦300% of the initial specified value
Leakage current ≦The initial specified value
F ailure rate ≦1%

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