ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

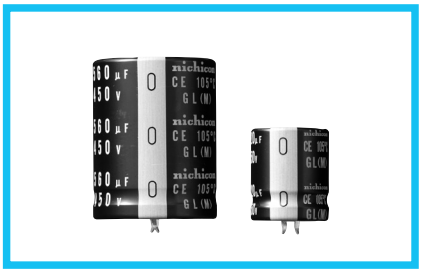
GL series

Snap-in Terminal Type, 105°C Ultra-Smaller-Sized

Smaller

- One rank smaller case sized than GG series.
- Suited for equipment down sizing.
- Compliant to the RoHS directive (2011/65/EU).

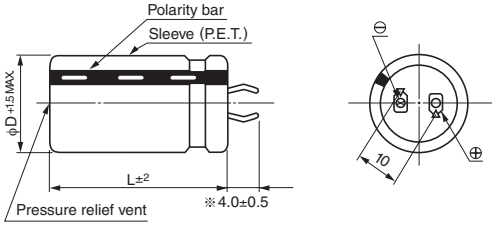
GG
Smaller
GL

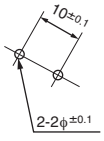


■Specifications

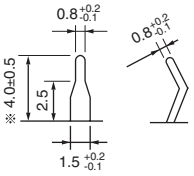
Item	Performance Characteristics
Category Temperature Range	– 25 to +105°C
Rated Voltage Range	400 ・ 450V
Rated Capacitance Range	120 to 1000μF
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	$I \leqq 3\sqrt{CV}$ (μA) (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]
Tangent of loss angle (tan δ)	Rated voltage (V): 400 / 450; tan δ (MAX.): 0.15 / 0.20. Measurement frequency : 120Hz at 20°C
Stability at Low Temperature	Rated voltage (V): 400 ・ 450; Impedance ratio ZT/Z20 (MAX.) Z – 25°C/Z+20°C: 8. Measurement frequency : 120Hz
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 2000 hours at 105°C, the peak voltage shall not exceed the rated voltage. — Capacitance change: Within ±20% of the initial capacitance value; tan δ: 200% or less than the initial specified value; Leakage current: Less than or equal to the initial specified value
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the characteristic requirements listed at right. — Capacitance change: Within ±20% of the initial capacitance value; tan δ: 200% or less than the initial specified value; Leakage current: Less than or equal to the initial specified value
Marking	Printed with white color letter on black sleeve.

■Drawing





(PC board hole dimensions)



(Terminal dimensions)

※ The other terminal is also available upon request.
Please refer page 326 for schematic of dimensions.

Type numbering system (Example : 400V 150μF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	G	L	2	G	1	5	1	M	E	L	Z	2	5

- 1–3: Series name (LGL)
- 4–5: Rated voltage (400V) (2G)
- 6–8: Rated capacitance (150μF) (151)
- 9: Capacitance tolerance (±20%) (M)
- 10–11: Configuration (EL)
- 12–14: Case dia. code (Z25) / Case length code

φD	Code
22	Z
25	A
30	B
35	C

● Frequency coefficient of rated ripple current

Frequency (Hz)		50	60	120	300	1 k	10k	50k or more
Coeff.	400 · 450V	0.77	0.82	1.00	1.16	1.30	1.41	1.43

Minimum order quantity : 50pcs.

● Dimension table in next page.

GL series

■Dimensions

400V (2G)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
150	22 × 25	730	0.73	LGL2G151MELZ25
220	22 × 30	780	0.88	LGL2G221MELZ30
	25 × 25	780	0.88	LGL2G221MELA25
270	22 × 35	910	0.98	LGL2G271MELZ35
	25 × 30	910	0.98	LGL2G271MELA30
330	22 × 45	1070	1.08	LGL2G331MELZ45
	25 × 35	1070	1.08	LGL2G331MELA35
	30 × 25	1040	1.08	LGL2G331MELB25
390	22 × 50	1230	1.18	LGL2G391MELZ50
	25 × 40	1230	1.18	LGL2G391MELA40
	30 × 30	1230	1.18	LGL2G391MELB30
	35 × 25	1180	1.18	LGL2G391MELC25
470	25 × 45	1500	1.30	LGL2G471MELA45
	30 × 35	1500	1.30	LGL2G471MELB35
560	30 × 40	1660	1.41	LGL2G561MELB40
	35 × 30	1660	1.41	LGL2G561MELC30
680	30 × 45	1740	1.56	LGL2G681MELB45
	35 × 35	1740	1.56	LGL2G681MELC35
820	30 × 50	1920	1.71	LGL2G821MELB50
	35 × 40	1920	1.71	LGL2G821MELC40
1000	35 × 50	2200	1.89	LGL2G102MELC50

450V (2W)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mA)	Leakage Current (mA)	Code
120	22 × 25	690	0.69	LGL2W121MELZ25
150	22 × 30	740	0.77	LGL2W151MELZ30
	25 × 25	740	0.77	LGL2W151MELA25
180	22 × 35	770	0.85	LGL2W181MELZ35
	25 × 30	770	0.85	LGL2W181MELA30
220	22 × 40	850	0.94	LGL2W221MELZ40
	25 × 35	850	0.94	LGL2W221MELA35
	30 × 25	820	0.94	LGL2W221MELB25
270	22 × 45	930	1.04	LGL2W271MELZ45
	25 × 40	930	1.04	LGL2W271MELA40
	30 × 30	930	1.04	LGL2W271MELB30
330	25 × 45	1120	1.15	LGL2W331MELA45
	30 × 35	1120	1.15	LGL2W331MELB35
	35 × 25	1070	1.15	LGL2W331MELC25
390	25 × 50	1280	1.25	LGL2W391MELA50
	30 × 40	1280	1.25	LGL2W391MELB40
	35 × 30	1280	1.25	LGL2W391MELC30
470	30 × 45	1480	1.37	LGL2W471MELB45
	35 × 35	1480	1.37	LGL2W471MELC35
560	30 × 50	1660	1.50	LGL2W561MELB50
	35 × 40	1660	1.50	LGL2W561MELC40
680	35 × 45	1770	1.65	LGL2W681MELC45
820	35 × 50	1930	1.82	LGL2W821MELC50

Rated ripple current (mArms) at 105°C 120Hz