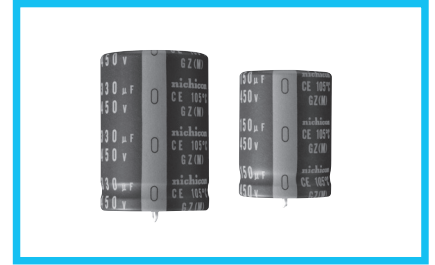


# ALUMINUM ELECTROLYTIC CAPACITORS

**LGZ** Snap-in Terminal Type, 105°C Long Life Assurance



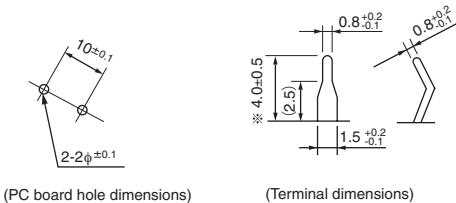
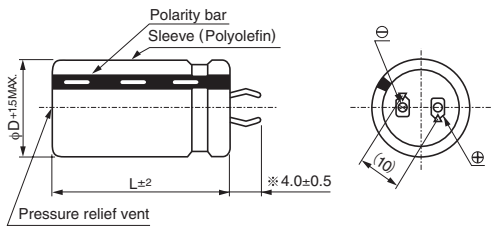
- Long life product of LGR series.
- Contribute to longer life of equipment.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).



## Specifications

Item	Performance Characteristics							
Category Temperature Range	- 25 to +105°C							
Rated Voltage Range	450V							
Rated Capacitance Range	82 to 330μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 5 minutes' application of rated voltage at 20°C, leakage current is not more than $3\sqrt{CV}$ (μA) or 5 mA, whichever is smaller (at 20°C) [C : Rated Capacitance (μF) , V : Voltage (V)]							
Tangent of loss angle (tan δ)	0.20MAX. 120Hz at 20°C							
Stability at Low Temperature	Rated voltage (V)	450						
	Impedance ratio ZT/Z20(MAX.)	Z - 25°C / Z+20°C 8						
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 20000 hours at 105°C, the peak voltage shall not exceed the rated voltage.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±25% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>250% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	Capacitance change	Within ±25% of the initial capacitance value	tan δ	250% or less than the initial specified value	Leakage current	Less than or equal to the initial specified value
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	tan δ	250% 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.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±15% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>150% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	Capacitance change	Within ±15% of the initial capacitance value	tan δ	150% or less than the initial specified value	Leakage current	Less than or equal to the initial specified value
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	tan δ	150% 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

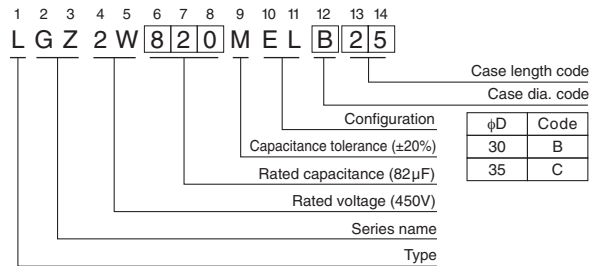


(PC board hole dimensions)

(Terminal dimensions)

※ The other terminal is also available upon request. Please refer to page 393 for schematic of dimensions.

## Type numbering system (Example : 450V 82μF)



## Dimensions

450V (2W)				
Cap. (μF)	Size φD x L(mm)	Rated ripple (mArms)	Leakage Current (mA)	Code
82	30 x 25	560	0.57	LGZ2W820MELB25
100	30 x 30	640	0.63	LGZ2W101MELB30
120	30 x 35	720	0.69	LGZ2W121MELB35
	35 x 25	720	0.69	LGZ2W121MELC25
150	30 x 40	790	0.77	LGZ2W151MELB40
	35 x 30	790	0.77	LGZ2W151MELC30
180	30 x 45	870	0.85	LGZ2W181MELB45
	35 x 35	870	0.85	LGZ2W181MELC35
220	30 x 50	1000	0.94	LGZ2W221MELB50
	35 x 40	1000	0.94	LGZ2W221MELC40
270	35 x 45	1190	1.04	LGZ2W271MELC45
330	35 x 50	1380	1.15	LGZ2W331MELC50

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

## Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	300	1 k	10k	50k or more
Coefficient	0.77	0.82	1.00	1.16	1.30	1.41	1.43

Minimum order quantity : 50pcs.