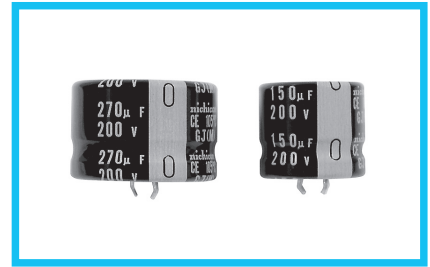
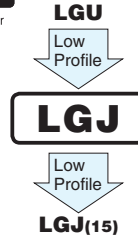


# ALUMINUM ELECTROLYTIC CAPACITORS

# LGJ

Snap-in Terminal Type, 105°C Low-Profile Sized



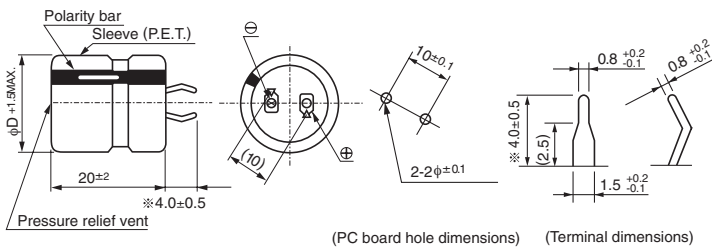
- Withstanding 3000 hours application of rated ripple current at 105°C.
- Ideally suited for flat design for switching power supply.
- Addition of 450V rated voltage.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).

## Specifications

| Item                          | Performance Characteristics   |  |                    |  |       |   |                 |   |
|-------------------------------|---|--|--------------------|--|-------|---|-----------------|---|
| Category Temperature Range    | - 40 to +105°C (200 · 250V) , - 25 to +105°C (400 · 450V)   |  |                    |  |       |   |                 |   |
| Rated Voltage Range           | 200 to 450V   |  |                    |  |       |   |                 |   |
| Rated Capacitance Range       | 47 to 680µF   |  |                    |  |       |   |                 |   |
| Capacitance Tolerance         | ±20% at 120Hz, 20°C   |  |                    |  |       |   |                 |   |
| Leakage Current               | 3√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)  | 200 to 400      450  |                    |  |       |   |                 |   |
|                               | tan δ (MAX.)  | 0.15      0.20   |                    |  |       |   |                 |   |
| Stability at Low Temperature  | Measurement frequency : 120Hz at 20°C   |  |                    |  |       |   |                 |   |
|                               | Measurement frequency : 120Hz   |  |                    |  |       |   |                 |   |
|                               | Rated voltage(V)  | 200 · 250      400 · 450   |                    |  |       |   |                 |   |
| Endurance                     | Impedance ratio ZT/Z20(MAX.)  | Z - 25°C/Z+20°C      3      8<br>Z - 40°C/Z+20°C      12      —  |                    |  |       |   |                 |   |
|                               | 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 3000 hours at 105°C, the peak voltage shall not exceed the rated voltage. | <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>200% 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 ±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 |
| 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 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 |
|                               | 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   |  |                    |  |       |   |                 |   |
| Marking                       | Printed with white color letter on black sleeve.  |  |                    |  |       |   |                 |   |

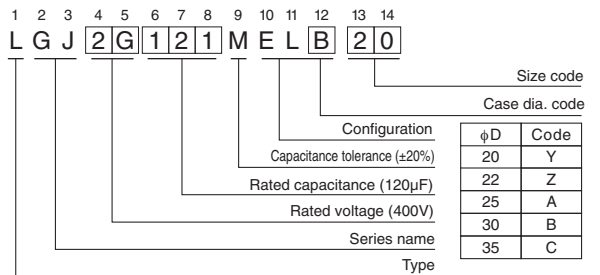
Since rating other than the above can be manufactured a please ask for detail.

## Drawing



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

## Type numbering system (Example : 400V 120µF)



## Frequency coefficient of rated ripple current

| Frequency (Hz) | 50   | 60   | 120  | 300  | 1 k  | 10k  | 50k or more |
|----------------|------|------|------|------|------|------|-------------|
| 200 to 250V    | 0.81 | 0.85 | 1.00 | 1.17 | 1.32 | 1.45 | 1.50        |
| 400 to 450V    | 0.77 | 0.82 | 1.00 | 1.16 | 1.30 | 1.41 | 1.43        |

Minimum order quantity : 50pcs.

● Dimension table in next page.



## ■ Dimensions

| 200V(2D)  |                 |                      |                      |                |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code           |
| 180       | 20 × 20         | 680                  | 0.56                 | LGJ2D181MELY20 |
| 220       | 22 × 20         | 760                  | 0.62                 | LGJ2D221MELZ20 |
| 270       | 22 × 20         | 780                  | 0.69                 | LGJ2D271MELZ20 |
| 330       | 25 × 20         | 960                  | 0.77                 | LGJ2D331MELA20 |
| 390       | 30 × 20         | 1080                 | 0.83                 | LGJ2D391MELB20 |
| 470       | 30 × 20         | 1120                 | 0.91                 | LGJ2D471MELB20 |
| 560       | 35 × 20         | 1440                 | 1.00                 | LGJ2D561MELC20 |
| 680       | 35 × 20         | 1520                 | 1.10                 | LGJ2D681MELC20 |

| 250V(2E)  |                 |                      |                      |                |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code           |
| 150       | 20 × 20         | 660                  | 0.58                 | LGJ2E151MELY20 |
| 180       | 22 × 20         | 750                  | 0.63                 | LGJ2E181MELZ20 |
| 220       | 25 × 20         | 920                  | 0.70                 | LGJ2E221MELA20 |
| 270       | 30 × 20         | 1040                 | 0.77                 | LGJ2E271MELB20 |
| 330       | 30 × 20         | 1080                 | 0.86                 | LGJ2E331MELB20 |
| 390       | 35 × 20         | 1410                 | 0.93                 | LGJ2E391MELC20 |
| 470       | 35 × 20         | 1470                 | 1.02                 | LGJ2E471MELC20 |

| 400V(2G)  |                 |                      |                      |                |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code           |
| 56        | 20 × 20         | 550                  | 0.44                 | LGJ2G560MELY20 |
| 68        | 22 × 20         | 620                  | 0.49                 | LGJ2G680MELZ20 |
| 82        | 25 × 20         | 700                  | 0.54                 | LGJ2G820MELA20 |
| 100       | 25 × 20         | 760                  | 0.60                 | LGJ2G101MELA20 |
| 120       | 30 × 20         | 860                  | 0.65                 | LGJ2G121MELB20 |
| 150       | 30 × 20         | 900                  | 0.73                 | LGJ2G151MELB20 |
| 180       | 35 × 20         | 1160                 | 0.80                 | LGJ2G181MELC20 |
| 220       | 35 × 20         | 1210                 | 0.88                 | LGJ2G221MELC20 |

| 450V(2W)  |                 |                      |                      |                |
|-----------|-----------------|----------------------|----------------------|----------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (mArms) | Leakage Current (mA) | Code           |
| 47        | 20 × 20         | 520                  | 0.43                 | LGJ2W470MELY20 |
| 56        | 22 × 20         | 600                  | 0.47                 | LGJ2W560MELZ20 |
| 68        | 25 × 20         | 670                  | 0.52                 | LGJ2W680MELA20 |
| 82        | 25 × 20         | 740                  | 0.57                 | LGJ2W820MELA20 |
| 100       | 30 × 20         | 830                  | 0.63                 | LGJ2W101MELB20 |
| 120       | 30 × 20         | 870                  | 0.69                 | LGJ2W121MELB20 |
| 150       | 35 × 20         | 1170                 | 0.77                 | LGJ2W151MELC20 |

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

# Mouser Electronics

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[LGJ2D471MHLC](#) [LGJ2C681MHLC](#) [LGJ2E181MHLA](#) [LGJ2E680MELA](#) [LGJ2G470MELZ](#) [LGJ2W121MELB20](#)  
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