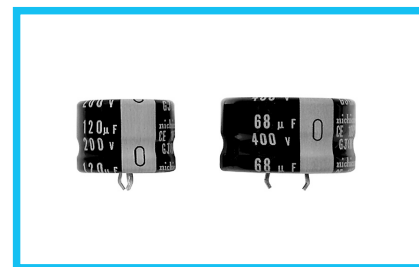


**GJ**  
**(15)**Snap-in Terminal Type, 105°C Low-Profile Sized  
(15mmL)  
series

Smaller

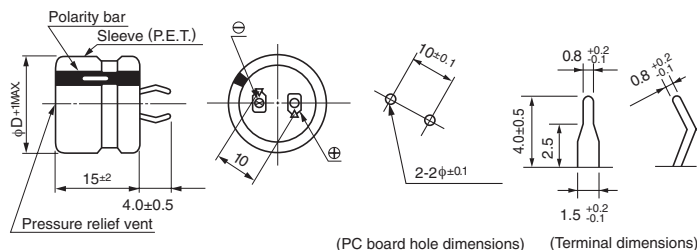
- Withstanding 2000 hours application of rated ripple current at 105°C.
- Smaller than low-profile GJ series.
- Ideally suited for flat design of switching power supply.
- Compliant to the RoHS directive (2011/65/EU).

**GJ(15)**

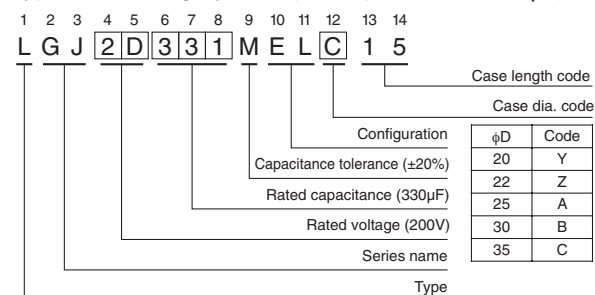
## Specifications

| Item                          | Performance Characteristics                                                                                                                                                                                                 |               |                    |                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|---------------------------------------------------|
| Category Temperature Range    | － 40 to +105°C (160 to 250V) , － 25 to +105°C (315・400V)                                                                                                                                                                    |               |                    |                                                   |
| Rated Voltage Range           | 160 to 400V                                                                                                                                                                                                                 |               |                    |                                                   |
| Rated Capacitance Range       | 39 to 390μF                                                                                                                                                                                                                 |               |                    |                                                   |
| Capacitance Tolerance         | ±20% at 120Hz, 20°C                                                                                                                                                                                                         |               |                    |                                                   |
| Leakage Current               | $I \leq 3\sqrt{CV}$ (μA) (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]                                                                                                       |               |                    |                                                   |
| Tangent of loss angle (tan δ) | 0.20 MAX. 120Hz at 20°C                                                                                                                                                                                                     |               |                    |                                                   |
| Stability at Low Temperature  | Measurement frequency : 120Hz                                                                                                                                                                                               |               |                    |                                                   |
|                               | Rated voltage(V)                                                                                                                                                                                                            |               | 160 to 250         | 315・400                                           |
|                               | Impedance ratio ZT/Z20(MAX.)                                                                                                                                                                                                | Z－25°C/Z+20°C | 3                  | 8                                                 |
|                               |                                                                                                                                                                                                                             | Z－40°C/Z+20°C | 12                 | —                                                 |
| 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 requirements listed at right.                        |               | 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.                                                                                                                                                                            |               |                    |                                                   |

## Drawing



## Type numbering system (Example : 200V 330µF)



## Frequency coefficient of rated ripple current

| Frequency (Hz) | 50          | 60   | 120  | 300  | 1 k  | 10k  | 50k or more |
|----------------|-------------|------|------|------|------|------|-------------|
| Coeff.         | 160 to 250V | 0.81 | 0.85 | 1.00 | 1.17 | 1.32 | 1.45        |
|                | 315 • 400V  | 0.77 | 0.82 | 1.00 | 1.16 | 1.30 | 1.41        |

Minimum order quantity : 50pcs.

- Dimension table in next page.

## ■ Dimensions

| 160V(2C)           |                                 |                      |                         |                |
|--------------------|---------------------------------|----------------------|-------------------------|----------------|
| Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 150                | 20 $\times$ 15                  | 550                  | 0.46                    | LGJ2C151MELY15 |
| 180                | 22 $\times$ 15                  | 650                  | 0.50                    | LGJ2C181MELZ15 |
| 220                | 25 $\times$ 15                  | 800                  | 0.56                    | LGJ2C221MELA15 |
| 270                | 30 $\times$ 15                  | 950                  | 0.62                    | LGJ2C271MELB15 |
| 330                | 30 $\times$ 15                  | 1000                 | 0.68                    | LGJ2C331MELB15 |
| 390                | 35 $\times$ 15                  | 1200                 | 0.74                    | LGJ2C391MELC15 |

| 180V(2Z)           |                                 |                      |                         |                |
|--------------------|---------------------------------|----------------------|-------------------------|----------------|
| Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 120                | 20 $\times$ 15                  | 500                  | 0.44                    | LGJ2Z121MELY15 |
| 150                | 22 $\times$ 15                  | 600                  | 0.49                    | LGJ2Z151MELZ15 |
| 180                | 25 $\times$ 15                  | 750                  | 0.54                    | LGJ2Z181MELA15 |
| 220                | 30 $\times$ 15                  | 850                  | 0.59                    | LGJ2Z221MELB15 |
| 270                | 30 $\times$ 15                  | 1000                 | 0.66                    | LGJ2Z271MELB15 |
| 330                | 35 $\times$ 15                  | 1100                 | 0.73                    | LGJ2Z331MELC15 |
| 390                | 35 $\times$ 15                  | 1200                 | 0.79                    | LGJ2Z391MELC15 |

| 200V(2D)           |                                 |                      |                         |                |
|--------------------|---------------------------------|----------------------|-------------------------|----------------|
| Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 100                | 20 $\times$ 15                  | 450                  | 0.42                    | LGJ2D101MELY15 |
| 120                | 22 $\times$ 15                  | 550                  | 0.46                    | LGJ2D121MELZ15 |
| 150                | 25 $\times$ 15                  | 650                  | 0.51                    | LGJ2D151MELA15 |
| 180                | 25 $\times$ 15                  | 750                  | 0.56                    | LGJ2D181MELA15 |
| 220                | 30 $\times$ 15                  | 900                  | 0.62                    | LGJ2D221MELB15 |
| 270                | 30 $\times$ 15                  | 1000                 | 0.69                    | LGJ2D271MELB15 |
| 330                | 35 $\times$ 15                  | 1100                 | 0.77                    | LGJ2D331MELC15 |

| 250V(2E)           |                                 |                      |                         |                |
|--------------------|---------------------------------|----------------------|-------------------------|----------------|
| Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 100                | 22 $\times$ 15                  | 500                  | 0.47                    | LGJ2E101MELZ15 |
| 120                | 25 $\times$ 15                  | 600                  | 0.51                    | LGJ2E121MELA15 |
| 150                | 30 $\times$ 15                  | 700                  | 0.58                    | LGJ2E151MELB15 |
| 180                | 30 $\times$ 15                  | 750                  | 0.63                    | LGJ2E181MELB15 |
| 220                | 35 $\times$ 15                  | 900                  | 0.70                    | LGJ2E221MELC15 |
| 270                | 35 $\times$ 15                  | 1000                 | 0.77                    | LGJ2E271MELC15 |

| 315V(2F)           |                                 |                      |                         |                |
|--------------------|---------------------------------|----------------------|-------------------------|----------------|
| Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 56                 | 22 $\times$ 15                  | 350                  | 0.39                    | LGJ2F560MELZ15 |
| 68                 | 25 $\times$ 15                  | 400                  | 0.43                    | LGJ2F680MELA15 |
| 82                 | 30 $\times$ 15                  | 450                  | 0.48                    | LGJ2F820MELB15 |
| 100                | 30 $\times$ 15                  | 500                  | 0.53                    | LGJ2F101MELB15 |
| 120                | 35 $\times$ 15                  | 550                  | 0.58                    | LGJ2F121MELC15 |
| 150                | 35 $\times$ 15                  | 600                  | 0.65                    | LGJ2F151MELC15 |

| 400V(2G)           |                                 |                      |                         |                |
|--------------------|---------------------------------|----------------------|-------------------------|----------------|
| Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 39                 | 22 $\times$ 15                  | 300                  | 0.37                    | LGJ2G390MELZ15 |
| 47                 | 25 $\times$ 15                  | 350                  | 0.41                    | LGJ2G470MELA15 |
| 56                 | 30 $\times$ 15                  | 400                  | 0.44                    | LGJ2G560MELB15 |
| 68                 | 30 $\times$ 15                  | 450                  | 0.49                    | LGJ2G680MELB15 |
| 82                 | 35 $\times$ 15                  | 500                  | 0.54                    | LGJ2G820MELC15 |
| 100                | 35 $\times$ 15                  | 550                  | 0.60                    | LGJ2G101MELC15 |

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