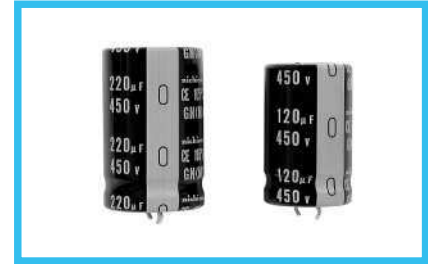
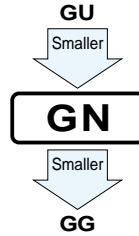


# ALUMINUM ELECTROLYTIC CAPACITORS

**GN** series Snap-in Terminal Type, 105°C Smaller-Sized



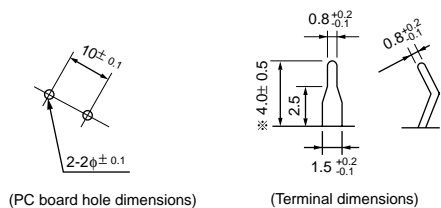
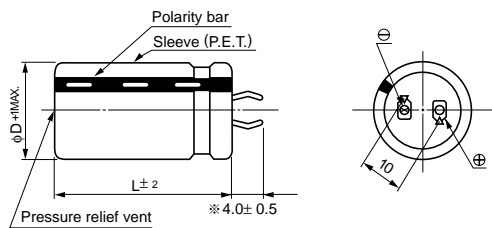
- Withstanding 3000 hours application of rated ripple current at 105°C.
- One rank smaller case sized than GU series.
- Addition of 500V rated voltage.
- Compliant to the RoHS directive (2002/95/EC).



## Specifications

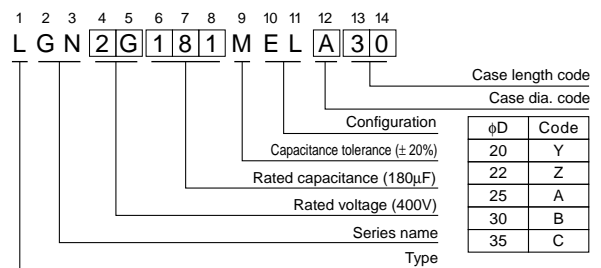
| Item                          | Performance Characteristics   |                 |            |   |   |
|-------------------------------|---|-----------------|------------|---|---|
| Category Temperature Range    | - 40 to +105°C (160 to 250V) , - 25 to +105°C (350 to 500V)   |                 |            |   |   |
| Rated Voltage Range           | 160 to 500V   |                 |            |   |   |
| Rated Capacitance Range       | 56 to 3300µF  |                 |            |   |   |
| Capacitance Tolerance         | ±20% at 120Hz, 20°C   |                 |            |   |   |
| Leakage Current               | $I \leq 3\sqrt{CV}(\mu A)$ (After 5 minutes' application of rated voltage) [C : Rated Capacitance (µF) V : Voltage (V)]   |                 |            |   |   |
| Tangent of loss angle (tan δ) | Rated voltage (V)   | 160 to 420      | 450 to 500 | Measurement frequency : 120Hz, Temperature : 20°C |   |
|                               | tan δ (MAX.)  | 0.15            | 0.20       |   |   |
| Stability at Low Temperature  | Rated voltage (V)   |                 | 160 to 250 | 350 to 500  | Measurement frequency : 120Hz                     |
|                               | Impedance ratio ZT/Z20 (MAX.)   | Z - 25°C/Z+20°C | 4          | 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 3000 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 1000hours 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



※ The other terminal is also available upon request.  
Please refer page 272 for schematic of dimensions.

## Type numbering system (Example : 400V 180µF)



Minimum order quantity : 50pcs.

● Dimension table in next page.



## ■ Dimensions

| 160V (2C) |                  |                      |                         |                |
|-----------|------------------|----------------------|-------------------------|----------------|
| Cap.(μF)  | Size<br>φD×L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 330       | 20 × 25          | 1170                 | 0.68                    | LGN2C331MELY25 |
| 390       | 20 × 25          | 1280                 | 0.74                    | LGN2C391MELY25 |
| 470       | 20 × 30          | 1400                 | 0.82                    | LGN2C471MELY30 |
|           | 22 × 25          | 1400                 | 0.82                    | LGN2C471MELZ25 |
| 560       | 20 × 35          | 1500                 | 0.89                    | LGN2C561MELY35 |
|           | 22 × 30          | 1500                 | 0.89                    | LGN2C561MELZ30 |
| 680       | 20 × 40          | 1700                 | 0.98                    | LGN2C681MELY40 |
|           | 22 × 35          | 1700                 | 0.98                    | LGN2C681MELZ35 |
|           | 25 × 25          | 1700                 | 0.98                    | LGN2C681MELA25 |
| 820       | 22 × 35          | 2000                 | 1.08                    | LGN2C821MELZ35 |
|           | 25 × 30          | 2000                 | 1.08                    | LGN2C821MELA30 |
|           | 30 × 25          | 2000                 | 1.08                    | LGN2C821MELB25 |
| 1000      | 22 × 45          | 2200                 | 1.20                    | LGN2C102MELZ45 |
|           | 25 × 35          | 2200                 | 1.20                    | LGN2C102MELA35 |
|           | 30 × 25          | 2200                 | 1.20                    | LGN2C102MELB25 |
| 1200      | 25 × 40          | 2300                 | 1.31                    | LGN2C122MELA40 |
|           | 30 × 30          | 2300                 | 1.31                    | LGN2C122MELB30 |
|           | 35 × 25          | 2300                 | 1.31                    | LGN2C122MELC25 |
| 1500      | 25 × 45          | 2500                 | 1.46                    | LGN2C152MELA45 |
|           | 30 × 35          | 2500                 | 1.46                    | LGN2C152MELB35 |
|           | 35 × 30          | 2500                 | 1.46                    | LGN2C152MELC30 |
| 1800      | 30 × 40          | 2700                 | 1.60                    | LGN2C182MELB40 |
|           | 35 × 35          | 2700                 | 1.60                    | LGN2C182MELC35 |
| 2200      | 30 × 45          | 2900                 | 1.77                    | LGN2C222MELB45 |
|           | 35 × 35          | 2900                 | 1.77                    | LGN2C222MELC35 |
| 2700      | 35 × 45          | 3100                 | 1.97                    | LGN2C272MELC45 |
| 3300      | 35 × 50          | 3300                 | 2.17                    | LGN2C332MELC50 |

| 180V (2Z) |                  |                      |                         |                |
|-----------|------------------|----------------------|-------------------------|----------------|
| Cap.(μF)  | Size<br>φD×L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 330       | 20 × 25          | 1200                 | 0.73                    | LGN2Z331MELY25 |
| 390       | 20 × 30          | 1280                 | 0.79                    | LGN2Z391MELY30 |
|           | 22 × 25          | 1280                 | 0.79                    | LGN2Z391MELZ25 |
| 470       | 20 × 35          | 1380                 | 0.87                    | LGN2Z471MELY35 |
|           | 22 × 30          | 1380                 | 0.87                    | LGN2Z471MELZ30 |
| 560       | 20 × 40          | 1500                 | 0.95                    | LGN2Z561MELY40 |
|           | 22 × 30          | 1500                 | 0.95                    | LGN2Z561MELZ30 |
|           | 25 × 25          | 1500                 | 0.95                    | LGN2Z561MELA25 |
| 680       | 20 × 45          | 1700                 | 1.04                    | LGN2Z681MELY45 |
|           | 22 × 35          | 1700                 | 1.04                    | LGN2Z681MELZ35 |
|           | 25 × 30          | 1700                 | 1.04                    | LGN2Z681MELA30 |
| 820       | 22 × 40          | 2000                 | 1.15                    | LGN2Z821MELZ40 |
|           | 25 × 35          | 2000                 | 1.15                    | LGN2Z821MELA35 |
|           | 30 × 25          | 2000                 | 1.15                    | LGN2Z821MELB25 |
| 1000      | 25 × 40          | 2200                 | 1.27                    | LGN2Z102MELA40 |
|           | 30 × 30          | 2200                 | 1.27                    | LGN2Z102MELB30 |
|           | 35 × 25          | 2200                 | 1.27                    | LGN2Z102MELC25 |
| 1200      | 25 × 45          | 2300                 | 1.39                    | LGN2Z122MELA45 |
|           | 30 × 35          | 2300                 | 1.39                    | LGN2Z122MELB35 |
|           | 35 × 30          | 2300                 | 1.39                    | LGN2Z122MELC30 |
| 1500      | 25 × 50          | 2500                 | 1.55                    | LGN2Z152MELA50 |
|           | 30 × 40          | 2500                 | 1.55                    | LGN2Z152MELB40 |
|           | 35 × 30          | 2500                 | 1.55                    | LGN2Z152MELC30 |
| 1800      | 30 × 45          | 2700                 | 1.70                    | LGN2Z182MELB45 |
|           | 35 × 35          | 2700                 | 1.70                    | LGN2Z182MELC35 |
| 2200      | 30 × 50          | 2900                 | 1.88                    | LGN2Z222MELB50 |
|           | 35 × 40          | 2900                 | 1.88                    | LGN2Z222MELC40 |
| 2700      | 35 × 50          | 3100                 | 2.09                    | LGN2Z272MELC50 |

| 200V (2D) |                  |                      |                         |                |
|-----------|------------------|----------------------|-------------------------|----------------|
| Cap.(μF)  | Size<br>φD×L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 270       | 20 × 25          | 990                  | 0.69                    | LGN2D271MELY25 |
| 330       | 20 × 30          | 1200                 | 0.77                    | LGN2D331MELY30 |
|           | 22 × 25          | 1200                 | 0.77                    | LGN2D331MELZ25 |
| 390       | 20 × 30          | 1340                 | 0.83                    | LGN2D391MELY30 |
|           | 22 × 25          | 1310                 | 0.83                    | LGN2D391MELZ25 |
| 470       | 20 × 35          | 1480                 | 0.91                    | LGN2D471MELY35 |
|           | 22 × 30          | 1480                 | 0.91                    | LGN2D471MELZ30 |
|           | 25 × 25          | 1480                 | 0.91                    | LGN2D471MELA25 |
| 560       | 20 × 40          | 1600                 | 1.00                    | LGN2D561MELY40 |
|           | 22 × 35          | 1600                 | 1.00                    | LGN2D561MELZ35 |
| 680       | 22 × 40          | 1750                 | 1.10                    | LGN2D681MELZ40 |
|           | 25 × 30          | 1750                 | 1.10                    | LGN2D681MELA30 |
|           | 30 × 25          | 1750                 | 1.10                    | LGN2D681MELB25 |
| 820       | 22 × 45          | 2040                 | 1.21                    | LGN2D821MELZ45 |
|           | 25 × 35          | 2040                 | 1.21                    | LGN2D821MELA35 |
| 1000      | 22 × 50          | 2300                 | 1.34                    | LGN2D102MELZ50 |
|           | 25 × 45          | 2300                 | 1.34                    | LGN2D102MELA45 |
|           | 30 × 30          | 2300                 | 1.34                    | LGN2D102MELB30 |
|           | 35 × 25          | 2300                 | 1.34                    | LGN2D102MELC25 |
| 1200      | 25 × 50          | 2650                 | 1.46                    | LGN2D122MELA50 |
|           | 30 × 35          | 2650                 | 1.46                    | LGN2D122MELB35 |
|           | 35 × 30          | 2650                 | 1.46                    | LGN2D122MELC30 |
| 1500      | 30 × 40          | 2800                 | 1.64                    | LGN2D152MELB40 |
|           | 35 × 35          | 2800                 | 1.64                    | LGN2D152MELC35 |
| 1800      | 30 × 50          | 3080                 | 1.80                    | LGN2D182MELB50 |
|           | 35 × 40          | 3080                 | 1.80                    | LGN2D182MELC40 |
| 2200      | 35 × 45          | 3480                 | 1.98                    | LGN2D222MELC45 |

| 220V (2P) |                  |                      |                         |                |
|-----------|------------------|----------------------|-------------------------|----------------|
| Cap.(μF)  | Size<br>φD×L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 220       | 20 × 25          | 980                  | 0.66                    | LGN2P221MELY25 |
| 270       | 20 × 30          | 1080                 | 0.73                    | LGN2P271MELY30 |
|           | 22 × 25          | 1080                 | 0.73                    | LGN2P271MELZ25 |
| 330       | 20 × 35          | 1260                 | 0.80                    | LGN2P331MELY35 |
|           | 22 × 25          | 1260                 | 0.80                    | LGN2P331MELZ25 |
| 390       | 20 × 35          | 1340                 | 0.87                    | LGN2P391MELY35 |
|           | 22 × 30          | 1340                 | 0.87                    | LGN2P391MELZ30 |
|           | 25 × 25          | 1340                 | 0.87                    | LGN2P391MELA25 |
| 470       | 20 × 45          | 1480                 | 0.96                    | LGN2P471MELY45 |
|           | 22 × 35          | 1480                 | 0.96                    | LGN2P471MELZ35 |
| 560       | 22 × 40          | 1610                 | 1.05                    | LGN2P561MELZ40 |
|           | 25 × 35          | 1610                 | 1.05                    | LGN2P561MELA35 |
|           | 30 × 25          | 1610                 | 1.05                    | LGN2P561MELB25 |
| 680       | 22 × 45          | 1780                 | 1.16                    | LGN2P681MELZ45 |
|           | 25 × 35          | 1780                 | 1.16                    | LGN2P681MELA35 |
|           | 30 × 30          | 1780                 | 1.16                    | LGN2P681MELB30 |
| 820       | 22 × 50          | 1930                 | 1.27                    | LGN2P821MELZ50 |
|           | 25 × 40          | 1930                 | 1.27                    | LGN2P821MELA40 |
|           | 30 × 35          | 1930                 | 1.27                    | LGN2P821MELB35 |
|           | 35 × 25          | 1930                 | 1.27                    | LGN2P821MELC25 |
| 1000      | 25 × 50          | 2330                 | 1.40                    | LGN2P102MELA50 |
|           | 30 × 35          | 2330                 | 1.40                    | LGN2P102MELB35 |
|           | 35 × 30          | 2330                 | 1.40                    | LGN2P102MELC30 |
| 1200      | 30 × 40          | 2500                 | 1.54                    | LGN2P122MELB40 |
|           | 35 × 35          | 2500                 | 1.54                    | LGN2P122MELC35 |
| 1500      | 30 × 50          | 2760                 | 1.72                    | LGN2P152MELB50 |
|           | 35 × 40          | 2760                 | 1.72                    | LGN2P152MELC40 |
| 1800      | 35 × 50          | 3110                 | 1.88                    | LGN2P182MELC50 |

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

CAT.8100Z



## ■ Dimensions

| 250V (2E) |                  |                      |                         |                |
|-----------|------------------|----------------------|-------------------------|----------------|
| Cap.(μF)  | Size<br>φD×L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 220       | 22 × 25          | 1000                 | 0.70                    | LGN2E221MELZ25 |
| 270       | 22 × 25          | 1100                 | 0.77                    | LGN2E271MELZ25 |
| 330       | 20 × 35          | 1200                 | 0.86                    | LGN2E331MELY35 |
|           | 22 × 30          | 1200                 | 0.86                    | LGN2E331MELZ30 |
|           | 25 × 25          | 1200                 | 0.86                    | LGN2E331MELA25 |
| 390       | 20 × 40          | 1300                 | 0.93                    | LGN2E391MELY40 |
|           | 22 × 35          | 1300                 | 0.93                    | LGN2E391MELZ35 |
|           | 25 × 30          | 1300                 | 0.93                    | LGN2E391MELA30 |
| 470       | 22 × 40          | 1400                 | 1.02                    | LGN2E471MELZ40 |
|           | 25 × 35          | 1400                 | 1.02                    | LGN2E471MELA35 |
|           | 30 × 25          | 1400                 | 1.02                    | LGN2E471MELB25 |
| 560       | 22 × 45          | 1500                 | 1.12                    | LGN2E561MELZ45 |
|           | 25 × 35          | 1500                 | 1.12                    | LGN2E561MELA35 |
|           | 30 × 30          | 1500                 | 1.12                    | LGN2E561MELB30 |
| 680       | 22 × 50          | 1700                 | 1.23                    | LGN2E681MELZ50 |
|           | 25 × 40          | 1700                 | 1.23                    | LGN2E681MELA40 |
|           | 30 × 30          | 1700                 | 1.23                    | LGN2E681MELB30 |
|           | 35 × 25          | 1700                 | 1.23                    | LGN2E681MELC25 |
| 820       | 25 × 45          | 2000                 | 1.35                    | LGN2E821MELA45 |
|           | 30 × 35          | 2000                 | 1.35                    | LGN2E821MELB35 |
|           | 35 × 30          | 2000                 | 1.35                    | LGN2E821MELC30 |
| 1000      | 30 × 40          | 2200                 | 1.50                    | LGN2E102MELB40 |
|           | 35 × 35          | 2200                 | 1.50                    | LGN2E102MELC35 |
| 1200      | 30 × 45          | 2300                 | 1.64                    | LGN2E122MELB45 |
|           | 35 × 40          | 2300                 | 1.64                    | LGN2E122MELC40 |
| 1500      | 35 × 45          | 2500                 | 1.83                    | LGN2E152MELC45 |
| 1800      | 35 × 50          | 2700                 | 2.01                    | LGN2E182MELC50 |

| 350V (2V) |                  |                      |                         |                |
|-----------|------------------|----------------------|-------------------------|----------------|
| Cap.(μF)  | Size<br>φD×L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 120       | 22 × 25          | 750                  | 0.61                    | LGN2V121MELZ25 |
| 150       | 22 × 30          | 820                  | 0.68                    | LGN2V151MELZ30 |
| 180       | 22 × 30          | 900                  | 0.75                    | LGN2V181MELZ30 |
|           | 25 × 25          | 900                  | 0.75                    | LGN2V181MELA25 |
| 220       | 22 × 35          | 1000                 | 0.83                    | LGN2V221MELZ35 |
|           | 25 × 30          | 1000                 | 0.83                    | LGN2V221MELA30 |
| 270       | 22 × 40          | 1100                 | 0.92                    | LGN2V271MELZ40 |
|           | 25 × 35          | 1100                 | 0.92                    | LGN2V271MELA35 |
|           | 30 × 25          | 1100                 | 0.92                    | LGN2V271MELB25 |
| 330       | 22 × 45          | 1200                 | 1.01                    | LGN2V331MELZ45 |
|           | 25 × 40          | 1200                 | 1.01                    | LGN2V331MELA40 |
|           | 30 × 30          | 1200                 | 1.01                    | LGN2V331MELB30 |
| 390       | 25 × 45          | 1300                 | 1.10                    | LGN2V391MELA45 |
|           | 30 × 35          | 1300                 | 1.10                    | LGN2V391MELB35 |
| 470       | 25 × 50          | 1400                 | 1.21                    | LGN2V471MELA50 |
|           | 30 × 40          | 1400                 | 1.21                    | LGN2V471MELB40 |
|           | 35 × 30          | 1400                 | 1.21                    | LGN2V471MELC30 |
|           |                  | 1400                 | 1.21                    | LGN2V471MELC30 |
| 560       | 30 × 45          | 1500                 | 1.32                    | LGN2V561MELB45 |
|           | 35 × 35          | 1500                 | 1.32                    | LGN2V561MELC35 |
| 680       | 30 × 50          | 1700                 | 1.46                    | LGN2V681MELB50 |
|           | 35 × 40          | 1700                 | 1.46                    | LGN2V681MELC40 |
| 820       | 35 × 45          | 1900                 | 1.60                    | LGN2V821MELC45 |

| 400V (2G) |                  |                      |                         |                |
|-----------|------------------|----------------------|-------------------------|----------------|
| Cap.(μF)  | Size<br>φD×L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 68        | 20 × 25          | 490                  | 0.49                    | LGN2G680MELY25 |
| 82        | 20 × 30          | 640                  | 0.54                    | LGN2G820MELY30 |
| 100       | 20 × 30          | 680                  | 0.60                    | LGN2G101MELY30 |
|           | 22 × 25          | 680                  | 0.60                    | LGN2G101MELZ25 |
| 120       | 20 × 35          | 730                  | 0.65                    | LGN2G121MELY35 |
|           | 22 × 30          | 730                  | 0.65                    | LGN2G121MELZ30 |
| 150       | 20 × 40          | 850                  | 0.73                    | LGN2G151MELY40 |
|           | 22 × 35          | 850                  | 0.73                    | LGN2G151MELZ35 |
| 180       | 22 × 35          | 950                  | 0.80                    | LGN2G181MELZ35 |
|           | 25 × 30          | 950                  | 0.80                    | LGN2G181MELA30 |
|           | 30 × 25          | 950                  | 0.80                    | LGN2G181MELB25 |
| 220       | 22 × 45          | 1100                 | 0.88                    | LGN2G221MELZ45 |
|           | 25 × 35          | 1100                 | 0.88                    | LGN2G221MELA35 |
|           | 30 × 25          | 1100                 | 0.88                    | LGN2G221MELB25 |
| 270       | 22 × 50          | 1220                 | 0.98                    | LGN2G271MELZ50 |
|           | 25 × 40          | 1220                 | 0.98                    | LGN2G271MELA40 |
|           | 30 × 30          | 1220                 | 0.98                    | LGN2G271MELB30 |
|           | 35 × 25          | 1220                 | 0.98                    | LGN2G271MELC25 |
| 330       | 25 × 45          | 1440                 | 1.08                    | LGN2G331MELA45 |
|           | 30 × 35          | 1440                 | 1.08                    | LGN2G331MELB35 |
| 390       | 25 × 50          | 1550                 | 1.18                    | LGN2G391MELA50 |
|           | 30 × 40          | 1550                 | 1.18                    | LGN2G391MELB40 |
|           | 35 × 30          | 1550                 | 1.18                    | LGN2G391MELC30 |
| 470       | 30 × 45          | 1680                 | 1.30                    | LGN2G471MELB45 |
|           | 35 × 35          | 1680                 | 1.30                    | LGN2G471MELC35 |
| 560       | 30 × 50          | 1900                 | 1.41                    | LGN2G561MELB50 |
|           | 35 × 40          | 1900                 | 1.41                    | LGN2G561MELC40 |
| 680       | 35 × 45          | 2120                 | 1.56                    | LGN2G681MELC45 |

| 420V (W6) |                  |                      |                         |                |
|-----------|------------------|----------------------|-------------------------|----------------|
| Cap.(μF)  | Size<br>φD×L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 68        | 20 × 25          | 500                  | 0.50                    | LGNW6680MELY25 |
| 82        | 20 × 25          | 640                  | 0.55                    | LGNW6820MELY25 |
| 100       | 20 × 30          | 660                  | 0.61                    | LGNW6101MELY30 |
|           | 22 × 25          | 660                  | 0.61                    | LGNW6101MELZ25 |
| 120       | 20 × 35          | 810                  | 0.67                    | LGNW6121MELY35 |
|           | 22 × 30          | 810                  | 0.67                    | LGNW6121MELZ30 |
|           | 25 × 25          | 810                  | 0.67                    | LGNW6121MELA25 |
| 150       | 20 × 40          | 840                  | 0.75                    | LGNW6151MELY40 |
|           | 22 × 35          | 840                  | 0.75                    | LGNW6151MELZ35 |
|           | 25 × 30          | 840                  | 0.75                    | LGNW6151MELA30 |
| 180       | 20 × 45          | 910                  | 0.82                    | LGNW6181MELY45 |
|           | 22 × 40          | 910                  | 0.82                    | LGNW6181MELZ40 |
|           | 25 × 30          | 910                  | 0.82                    | LGNW6181MELA30 |
|           | 30 × 25          | 910                  | 0.82                    | LGNW6181MELB25 |
| 220       | 22 × 45          | 1050                 | 0.91                    | LGNW6221MELZ45 |
|           | 25 × 35          | 1050                 | 0.91                    | LGNW6221MELA35 |
|           | 30 × 30          | 1050                 | 0.91                    | LGNW6221MELB30 |
| 270       | 25 × 40          | 1250                 | 1.01                    | LGNW6271MELA40 |
|           | 30 × 30          | 1250                 | 1.01                    | LGNW6271MELB30 |
|           | 35 × 25          | 1250                 | 1.01                    | LGNW6271MELC25 |
| 330       | 25 × 50          | 1420                 | 1.11                    | LGNW6331MELA50 |
|           | 30 × 35          | 1420                 | 1.11                    | LGNW6331MELB35 |
|           | 35 × 30          | 1420                 | 1.11                    | LGNW6331MELC30 |
| 390       | 30 × 40          | 1610                 | 1.21                    | LGNW6391MELB40 |
|           | 35 × 35          | 1610                 | 1.21                    | LGNW6391MELC35 |
| 470       | 30 × 45          | 1860                 | 1.33                    | LGNW6471MELB45 |
|           | 35 × 40          | 1860                 | 1.33                    | LGNW6471MELC40 |
| 560       | 35 × 45          | 2100                 | 1.45                    | LGNW6561MELC45 |
| 680       | 35 × 50          | 2200                 | 1.60                    | LGNW6681MELC50 |

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

CAT.8100Z



## ■ Dimensions

| 450V (2W) |                  |                      |                         |                |
|-----------|------------------|----------------------|-------------------------|----------------|
| Cap.(μF)  | Size<br>φD×L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 56        | 20 × 25          | 440                  | 0.47                    | LGN2W560MELY25 |
| 68        | 20 × 25          | 500                  | 0.52                    | LGN2W680MELY25 |
| 82        | 20 × 30          | 640                  | 0.57                    | LGN2W820MELY30 |
|           | 22 × 25          | 640                  | 0.57                    | LGN2W820MELZ25 |
| 100       | 20 × 35          | 690                  | 0.63                    | LGN2W101MELY35 |
|           | 22 × 30          | 690                  | 0.63                    | LGN2W101MELZ30 |
|           | 25 × 25          | 690                  | 0.63                    | LGN2W101MELA25 |
| 120       | 22 × 35          | 720                  | 0.69                    | LGN2W121MELZ35 |
|           | 25 × 30          | 720                  | 0.69                    | LGN2W121MELA30 |
| 150       | 20 × 45          | 790                  | 0.77                    | LGN2W151MELY45 |
|           | 22 × 40          | 790                  | 0.77                    | LGN2W151MELZ40 |
|           | 25 × 30          | 790                  | 0.77                    | LGN2W151MELA30 |
|           | 30 × 25          | 790                  | 0.77                    | LGN2W151MELB25 |
| 180       | 22 × 45          | 870                  | 0.85                    | LGN2W181MELZ45 |
|           | 25 × 35          | 870                  | 0.85                    | LGN2W181MELA35 |
|           | 30 × 30          | 870                  | 0.85                    | LGN2W181MELB30 |
| 220       | 25 × 40          | 1050                 | 0.94                    | LGN2W221MELA40 |
|           | 30 × 30          | 1050                 | 0.94                    | LGN2W221MELB30 |
|           | 35 × 25          | 1050                 | 0.94                    | LGN2W221MELC25 |
| 270       | 25 × 50          | 1230                 | 1.04                    | LGN2W271MELA50 |
|           | 30 × 35          | 1230                 | 1.04                    | LGN2W271MELB35 |
|           | 35 × 30          | 1230                 | 1.04                    | LGN2W271MELC30 |
| 330       | 30 × 40          | 1380                 | 1.15                    | LGN2W331MELB40 |
|           | 35 × 35          | 1380                 | 1.15                    | LGN2W331MELC35 |
| 390       | 30 × 50          | 1610                 | 1.25                    | LGN2W391MELB50 |
|           | 35 × 40          | 1610                 | 1.25                    | LGN2W391MELC40 |
| 470       | 35 × 45          | 1780                 | 1.37                    | LGN2W471MELC45 |
| 560       | 35 × 50          | 1990                 | 1.50                    | LGN2W561MELC50 |

| 500V( 2H ) |                  |                      |                         |                |
|------------|------------------|----------------------|-------------------------|----------------|
| Cap.(μF)   | Size<br>φD×L(mm) | Rated ripple<br>(mA) | Leakage Current<br>(mA) | Code           |
| 56         | 22 × 25          | 470                  | 0.50                    | LGN2H560MELZ25 |
| 68         | 22 × 30          | 520                  | 0.55                    | LGN2H680MELZ30 |
|            | 25 × 25          | 520                  | 0.55                    | LGN2H680MELA25 |
| 82         | 22 × 35          | 590                  | 0.60                    | LGN2H820MELZ35 |
| 100        | 22 × 40          | 650                  | 0.67                    | LGN2H101MELZ40 |
|            | 25 × 30          | 650                  | 0.67                    | LGN2H101MELA30 |
|            | 30 × 25          | 650                  | 0.67                    | LGN2H101MELB25 |
| 120        | 22 × 45          | 680                  | 0.73                    | LGN2H121MELZ45 |
|            | 25 × 35          | 680                  | 0.73                    | LGN2H121MELA35 |
|            | 30 × 30          | 680                  | 0.73                    | LGN2H121MELB30 |
| 150        | 22 × 50          | 750                  | 0.82                    | LGN2H151MELZ50 |
|            | 25 × 45          | 750                  | 0.82                    | LGN2H151MELA45 |
|            | 35 × 25          | 750                  | 0.82                    | LGN2H151MELC25 |
| 180        | 25 × 50          | 900                  | 0.90                    | LGN2H181MELA50 |
|            | 30 × 35          | 900                  | 0.90                    | LGN2H181MELB35 |
|            | 35 × 30          | 900                  | 0.90                    | LGN2H181MELC30 |
| 220        | 30 × 45          | 1020                 | 0.99                    | LGN2H221MELB45 |
|            | 35 × 35          | 1020                 | 0.99                    | LGN2H221MELC35 |
|            | 270              | 30 × 50              | 1120                    | 1.10           |
| 35 × 40    |                  | 1120                 | 1.10                    | LGN2H271MELC40 |
| 330        | 35 × 45          | 1250                 | 1.21                    | LGN2H331MELC45 |
| 390        | 35 × 50          | 1300                 | 1.32                    | LGN2H391MELC50 |

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

## ● Frequency coefficient of rated ripple current

| Frequency (Hz) |             | 50   | 60   | 120  | 300  | 1k   | 10k  | 50k or more |
|----------------|-------------|------|------|------|------|------|------|-------------|
| coeff          | 160 to 250V | 0.81 | 0.85 | 1.00 | 1.17 | 1.32 | 1.45 | 1.50        |
|                | 350 to 500V | 0.77 | 0.82 | 1.00 | 1.16 | 1.30 | 1.41 | 1.43        |