

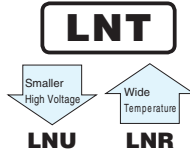
# ALUMINUM ELECTROLYTIC CAPACITORS

# LNT

Screw Terminal Type, 105°C Standard



- Load life of 5,000 hours (2,000 hours for 10 to 250V, 500V) application of rated ripple current at +105°C.
- Extended voltage range from 10V up to 500V.
- Extended range up to  $\phi 100 \times 250L$  2size.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).

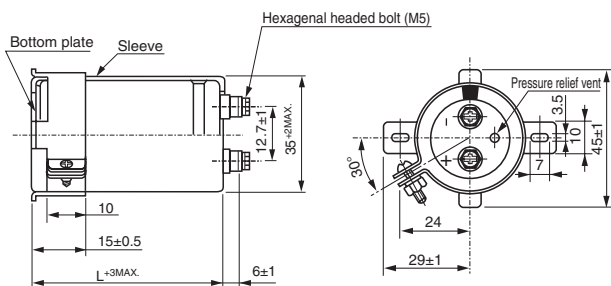


## Specifications

| Item  | Performance Characteristics   |  |           |            |                                 |   |   |              |    |   |
|---|---|--|-----------|------------|---------------------------------|---|---|--------------|----|---|
| Category Temperature Range                  | - 40 to +105°C (10 to 100V) , - 25 to +105°C (160 to 500V)  |  |           |            |                                 |   |   |              |    |   |
| Rated Voltage Range                         | 10 to 500V  |  |           |            |                                 |   |   |              |    |   |
| Rated Capacitance Range                     | 220 to 680000 $\mu$ F   |  |           |            |                                 |   |   |              |    |   |
| Capacitance Tolerance                       | $\pm 20\%$ at 120Hz, 20°C   |  |           |            |                                 |   |   |              |    |   |
| Leakage Current                             | After 5 minutes' application of rated voltage, leakage current is not more than $3\sqrt{C_V}$ ( $\mu$ A) or 5mA, whichever is smaller. (at 20°C) [C:Rated Capacitance ( $\mu$ F), V:Voltage(V)]   |  |           |            |                                 |   |   |              |    |   |
| Tangent of loss angle (tan $\delta$ ) (MAX) | See refer to next page (Measurement frequency : 120Hz at 20°C)  |  |           |            |                                 |   |   |              |    |   |
| Stability at Low Temperature                | Measurement frequency : 120Hz   |  |           |            |                                 |   |   |              |    |   |
|   | <table border="1"> <thead> <tr> <th>Rated voltage(V)</th> <th>10 to 100</th> <th>160 to 500</th> </tr> </thead> <tbody> <tr> <td>Impedance ratio Z - 25°C/Z+20°C</td> <td>—</td> <td>8</td> </tr> <tr> <td>ZT/Z20(MAX.)</td> <td>12</td> <td>—</td> </tr> </tbody> </table> | Rated voltage(V)                                   | 10 to 100 | 160 to 500 | Impedance ratio Z - 25°C/Z+20°C | — | 8 | ZT/Z20(MAX.) | 12 | — |
| Rated voltage(V)                            | 10 to 100   | 160 to 500   |           |            |                                 |   |   |              |    |   |
| Impedance ratio Z - 25°C/Z+20°C             | —   | 8  |           |            |                                 |   |   |              |    |   |
| ZT/Z20(MAX.)                                | 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 5000 hours (2000 hours for 10 to 250V/500V) at 105°C, the peak voltage shall not exceed the rated voltage.                |  |           |            |                                 |   |   |              |    |   |
|   | Capacitance change  | Within $\pm 20\%$ of the initial capacitance value |           |            |                                 |   |   |              |    |   |
|   | tan $\delta$  | 300% or less than 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 $\pm 20\%$ of the initial capacitance value |           |            |                                 |   |   |              |    |   |
|   | tan $\delta$  | 300% or less than the initial specified value      |           |            |                                 |   |   |              |    |   |
| Marking                                     | Printed with white color letter on black sleeve.  |  |           |            |                                 |   |   |              |    |   |

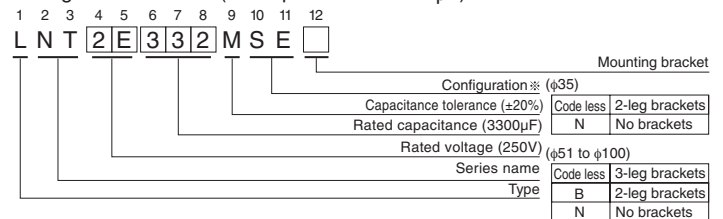
## Drawing

$\phi 35$  Screw terminal type

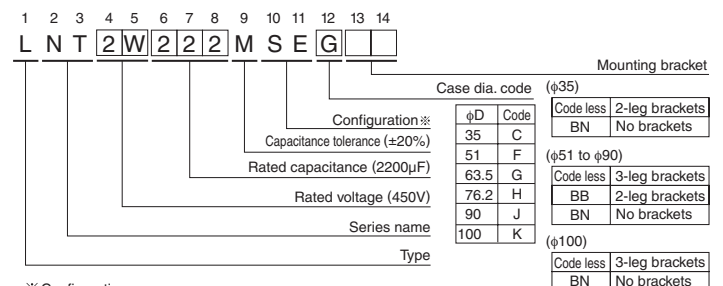


## Type numbering system

Voltage 250V or less (Example : 250V 3300 $\mu$ F)



Voltage 350V or more (Example : 450V 2200 $\mu$ F)



※ Configuration

|                                   |
|-----------------------------------|
| Cr (III) Plating (RoHS compliant) |
| SE                                |

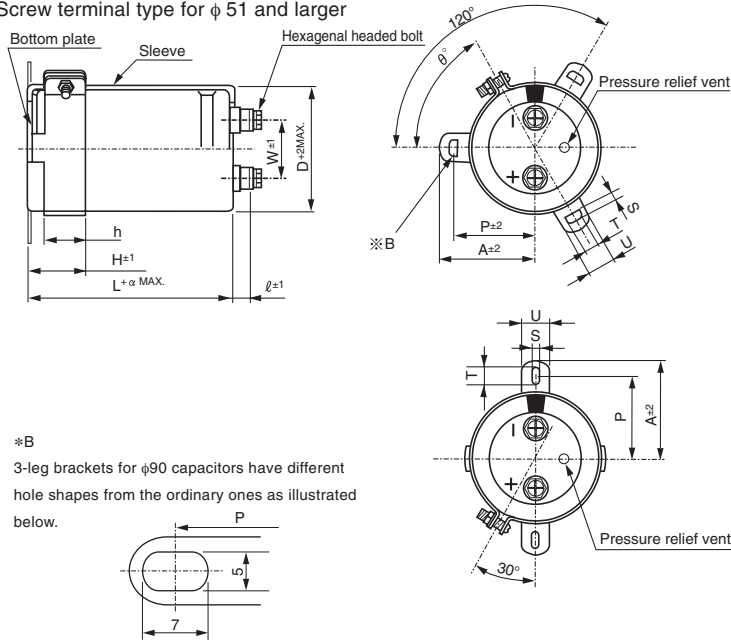
Please refer to the Guidelines for Aluminum Electrolytic Capacitors for dimensions information.

※ Please contact to us if PVCless products are required.

● Dimension table in next page.

## LNT

Screw terminal type for  $\phi 51$  and larger



※B  
3-leg brackets for  $\phi 90$  capacitors have different hole shapes from the ordinary ones as illustrated below.

● Dimension of terminal pitch (W) and length ( $\ell$ ) and Nominal dia. of bolt (mm)

| $\phi D$ | W    | $\ell$ | $\alpha$ | Nominal. of bolt |
|----------|------|--------|----------|------------------|
| 51       | 22.0 | 6      | 3        | M5               |
| 63.5     | 28.6 | 6      | 3        | M5               |
| 76.2     | 31.8 | 6      | 3        | M5               |
| 90       | 31.8 | 6      | 3        | M5               |
| 100      | 41.5 | 10     | 4        | M8               |

● Dimensions of mounting bracket (mm)

| Symbol         | Leg Shape<br>$\phi D$ | 3-Legs |      |      |      |      | 2-Legs |      |      |     |
|----------------|-----------------------|--------|------|------|------|------|--------|------|------|-----|
|                |                       | 51     | 63.5 | 76.2 | 90   | 100  | 51     | 63.5 | 76.2 | 90  |
| P              |                       | 32.5   | 38.1 | 44.5 | 50.8 | 56.3 | 33.2   | 40.5 | 46.5 | 53  |
| A              |                       | 38.5   | 43   | 49.2 | 58.5 | 62   | 40     | 46.5 | 53   | 59  |
| T              |                       | 7.5    | 8.0  | 7.0  | 8.0  | 8.0  | 6.0    | 7.0  | 6.0  | 6.0 |
| S              |                       | 5.0    | 5.0  | 5.0  | 5.0  | 5.0  | 4.5    | 4.5  | 4.5  | 4.5 |
| U              |                       | 12     | 14   | 14   | 18   | 16   | 14     | 14   | 14   | 14  |
| $\theta^\circ$ |                       | 60     | 60   | 60   | 60   | 60   | 30     | 30   | 30   | 30  |
| H              |                       | 20     | 25   | 30   | 35   | 36   | 25     | 35   | 35   | 35  |
| h              |                       | 15     | 20   | 24   | 25   | 30   | 15     | 20   | 20   | 20  |

### ■ Dimensions

| 10V (1A)         |                             |                     |               |                      |             |
|------------------|-----------------------------|---------------------|---------------|----------------------|-------------|
| Cap. ( $\mu F$ ) | Size $\phi D \times L$ (mm) | Rated ripple (Arms) | $\tan \delta$ | Leakage Current (mA) | Code        |
| 33000            | 35 × 80                     | 4.8                 | 0.65          | 1.72                 | LNT1A333MSE |
| 47000            | 35 × 100                    | 6.2                 | 0.65          | 2.05                 | LNT1A473MSE |
| 68000            | 51 × 80                     | 6.8                 | 0.80          | 2.47                 | LNT1A683MSE |
| 100000           | 51 × 100                    | 8.6                 | 0.80          | 3.00                 | LNT1A104MSE |
| 150000           | 51 × 120                    | 10.8                | 0.85          | 3.67                 | LNT1A154MSE |
| 220000           | 63.5 × 120                  | 13.2                | 1.20          | 4.44                 | LNT1A224MSE |
| 330000           | 76.2 × 120                  | 15.8                | 2.00          | 5.00                 | LNT1A334MSE |
| 470000           | 90 × 140                    | 17.0                | 2.40          | 5.00                 | LNT1A474MSE |
| 680000           | 90 × 170                    | 18.4                | 2.40          | 5.00                 | LNT1A684MSE |

| 16V (1C)         |                             |                     |               |                      |             |
|------------------|-----------------------------|---------------------|---------------|----------------------|-------------|
| Cap. ( $\mu F$ ) | Size $\phi D \times L$ (mm) | Rated ripple (Arms) | $\tan \delta$ | Leakage Current (mA) | Code        |
| 33000            | 35 × 80                     | 5.2                 | 0.45          | 2.17                 | LNT1C333MSE |
| 47000            | 35 × 100                    | 6.8                 | 0.45          | 2.60                 | LNT1C473MSE |
| 68000            | 51 × 80                     | 7.1                 | 0.60          | 3.12                 | LNT1C683MSE |
| 100000           | 51 × 100                    | 9.6                 | 0.60          | 3.79                 | LNT1C104MSE |
| 150000           | 51 × 120                    | 11.0                | 0.60          | 4.64                 | LNT1C154MSE |
| 220000           | 63.5 × 120                  | 14.1                | 0.80          | 5.00                 | LNT1C224MSE |
| 330000           | 76.2 × 120                  | 20.6                | 1.20          | 5.00                 | LNT1C334MSE |
| 470000           | 90 × 140                    | 22.1                | 2.00          | 5.00                 | LNT1C474MSE |
| 680000           | 90 × 170                    | 24.0                | 2.00          | 5.00                 | LNT1C684MSE |

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

## LNT

### ■ Dimensions

| 25V (1E)  |                 |                     |       |                      |             |
|-----------|-----------------|---------------------|-------|----------------------|-------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code        |
| 22000     | 35 × 80         | 4.9                 | 0.40  | 2.22                 | LNT1E223MSE |
| 33000     | 35 × 100        | 6.2                 | 0.40  | 2.72                 | LNT1E333MSE |
| 47000     | 51 × 80         | 8.3                 | 0.50  | 3.25                 | LNT1E473MSE |
| 68000     | 51 × 120        | 10.2                | 0.50  | 3.91                 | LNT1E683MSE |
| 100000    | 63.5 × 100      | 11.5                | 0.65  | 4.74                 | LNT1E104MSE |
| 150000    | 63.5 × 120      | 13.8                | 0.70  | 5.00                 | LNT1E154MSE |
| 220000    | 76.2 × 120      | 17.0                | 0.90  | 5.00                 | LNT1E224MSE |
| 330000    | 90 × 140        | 20.8                | 1.50  | 5.00                 | LNT1E334MSE |
| 470000    | 90 × 170        | 22.4                | 1.50  | 5.00                 | LNT1E474MSE |
| 680000    | 90 × 220        | 24.2                | 1.50  | 5.00                 | LNT1E684MSE |

| 35V (1V)  |                 |                     |       |                      |             |
|-----------|-----------------|---------------------|-------|----------------------|-------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code        |
| 10000     | 35 × 80         | 4.7                 | 0.30  | 1.77                 | LNT1V103MSE |
| 15000     | 35 × 80         | 5.1                 | 0.30  | 2.17                 | LNT1V153MSE |
| 22000     | 35 × 100        | 5.6                 | 0.30  | 2.63                 | LNT1V223MSE |
| 33000     | 51 × 80         | 7.4                 | 0.40  | 3.22                 | LNT1V333MSE |
| 47000     | 51 × 100        | 8.4                 | 0.40  | 3.84                 | LNT1V473MSE |
| 68000     | 51 × 120        | 12.3                | 0.40  | 4.62                 | LNT1V683MSE |
| 100000    | 63.5 × 120      | 13.6                | 0.50  | 5.00                 | LNT1V104MSE |
| 150000    | 76.2 × 120      | 15.1                | 0.70  | 5.00                 | LNT1V154MSE |
| 220000    | 90 × 140        | 17.4                | 1.00  | 5.00                 | LNT1V224MSE |
| 330000    | 90 × 170        | 21.3                | 1.00  | 5.00                 | LNT1V334MSE |
| 470000    | 90 × 220        | 25.4                | 1.00  | 5.00                 | LNT1V474MSE |
| 680000    | 100 × 250       | 27.5                | 1.00  | 5.00                 | LNT1V684MSE |

| 50V (1H)  |                 |                     |       |                      |             |
|-----------|-----------------|---------------------|-------|----------------------|-------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code        |
| 10000     | 35 × 80         | 4.9                 | 0.25  | 2.12                 | LNT1H103MSE |
| 15000     | 35 × 100        | 5.5                 | 0.25  | 2.59                 | LNT1H153MSE |
| 22000     | 51 × 80         | 6.3                 | 0.25  | 3.14                 | LNT1H223MSE |
| 33000     | 51 × 120        | 8.0                 | 0.30  | 3.85                 | LNT1H333MSE |
| 47000     | 63.5 × 100      | 9.9                 | 0.35  | 4.59                 | LNT1H473MSE |
| 68000     | 63.5 × 120      | 12.8                | 0.35  | 5.00                 | LNT1H683MSE |
| 100000    | 76.2 × 120      | 16.8                | 0.55  | 5.00                 | LNT1H104MSE |
| 150000    | 90 × 140        | 19.5                | 0.75  | 5.00                 | LNT1H154MSE |
| 220000    | 90 × 170        | 22.0                | 0.75  | 5.00                 | LNT1H224MSE |
| 330000    | 90 × 220        | 24.3                | 0.75  | 5.00                 | LNT1H334MSE |
| 470000    | 100 × 250       | 26.1                | 0.75  | 5.00                 | LNT1H474MSE |

| 63V (1J)  |                 |                     |       |                      |             |
|-----------|-----------------|---------------------|-------|----------------------|-------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code        |
| 10000     | 35 × 100        | 5.0                 | 0.25  | 2.38                 | LNT1J103MSE |
| 15000     | 51 × 80         | 5.9                 | 0.25  | 2.91                 | LNT1J153MSE |
| 22000     | 51 × 100        | 6.9                 | 0.25  | 3.53                 | LNT1J223MSE |
| 33000     | 63.5 × 100      | 9.4                 | 0.30  | 4.32                 | LNT1J333MSE |
| 47000     | 63.5 × 120      | 11.2                | 0.30  | 5.00                 | LNT1J473MSE |
| 68000     | 76.2 × 120      | 13.5                | 0.50  | 5.00                 | LNT1J683MSE |
| 100000    | 90 × 140        | 17.8                | 0.60  | 5.00                 | LNT1J104MSE |
| 150000    | 90 × 170        | 21.0                | 0.60  | 5.00                 | LNT1J154MSE |
| 220000    | 90 × 220        | 23.7                | 0.60  | 5.00                 | LNT1J224MSE |
| 330000    | 100 × 250       | 26.1                | 0.60  | 5.00                 | LNT1J334MSE |

| 80V (1K)  |                 |                     |       |                      |             |
|-----------|-----------------|---------------------|-------|----------------------|-------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code        |
| 4700      | 35 × 80         | 3.5                 | 0.20  | 1.83                 | LNT1K472MSE |
| 6800      | 35 × 100        | 3.9                 | 0.20  | 2.21                 | LNT1K682MSE |
| 10000     | 51 × 80         | 5.4                 | 0.20  | 2.68                 | LNT1K103MSE |
| 15000     | 51 × 100        | 6.4                 | 0.20  | 3.28                 | LNT1K153MSE |
| 22000     | 63.5 × 100      | 8.4                 | 0.25  | 3.97                 | LNT1K223MSE |
| 33000     | 76.2 × 100      | 9.9                 | 0.30  | 4.87                 | LNT1K333MSE |
| 47000     | 76.2 × 120      | 13.4                | 0.35  | 5.00                 | LNT1K473MSE |
| 68000     | 90 × 140        | 17.0                | 0.40  | 5.00                 | LNT1K683MSE |
| 100000    | 90 × 170        | 18.6                | 0.40  | 5.00                 | LNT1K104MSE |
| 150000    | 90 × 220        | 21.6                | 0.40  | 5.00                 | LNT1K154MSE |
| 220000    | 100 × 250       | 24.8                | 0.40  | 5.00                 | LNT1K224MSE |

| 100V (2A) |                 |                     |       |                      |             |
|-----------|-----------------|---------------------|-------|----------------------|-------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code        |
| 2200      | 35 × 80         | 2.4                 | 0.12  | 1.40                 | LNT2A222MSE |
| 3300      | 35 × 80         | 3.3                 | 0.12  | 1.72                 | LNT2A332MSE |
| 4700      | 35 × 100        | 3.8                 | 0.12  | 2.05                 | LNT2A472MSE |
| 6800      | 51 × 80         | 5.2                 | 0.15  | 2.47                 | LNT2A682MSE |
| 10000     | 51 × 100        | 6.7                 | 0.15  | 3.00                 | LNT2A103MSE |
| 15000     | 63.5 × 100      | 7.8                 | 0.20  | 3.67                 | LNT2A153MSE |
| 22000     | 76.2 × 100      | 9.9                 | 0.30  | 4.44                 | LNT2A223MSE |
| 33000     | 76.2 × 140      | 12.7                | 0.30  | 5.00                 | LNT2A333MSE |
| 47000     | 90 × 140        | 17.0                | 0.30  | 5.00                 | LNT2A473MSE |
| 68000     | 90 × 170        | 18.2                | 0.30  | 5.00                 | LNT2A683MSE |
| 100000    | 90 × 220        | 20.6                | 0.30  | 5.00                 | LNT2A104MSE |
| 150000    | 100 × 220       | 23.4                | 0.30  | 5.00                 | LNT2A154MSE |

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

## LNT

### ■ Dimensions

| 160V (2C) |                 |                     |       |                      |             |
|-----------|-----------------|---------------------|-------|----------------------|-------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code        |
| 1000      | 35 × 80         | 1.6                 | 0.15  | 1.20                 | LNT2C102MSE |
| 1500      | 35 × 80         | 2.1                 | 0.15  | 1.46                 | LNT2C152MSE |
| 2200      | 35 × 100        | 2.7                 | 0.15  | 1.77                 | LNT2C222MSE |
| 3300      | 51 × 80         | 3.8                 | 0.15  | 2.17                 | LNT2C332MSE |
| 4700      | 51 × 100        | 4.5                 | 0.15  | 2.60                 | LNT2C472MSE |
| 6800      | 63.5 × 100      | 6.8                 | 0.20  | 3.12                 | LNT2C682MSE |
| 10000     | 63.5 × 120      | 7.8                 | 0.20  | 3.79                 | LNT2C103MSE |
| 15000     | 76.2 × 120      | 9.8                 | 0.20  | 4.64                 | LNT2C153MSE |
| 22000     | 76.2 × 140      | 12.5                | 0.20  | 5.00                 | LNT2C223MSE |
| 33000     | 90 × 140        | 13.4                | 0.25  | 5.00                 | LNT2C333MSE |
| 47000     | 90 × 220        | 17.2                | 0.25  | 5.00                 | LNT2C473MSE |
| 68000     | 100 × 250       | 19.2                | 0.25  | 5.00                 | LNT2C683MSE |

| 200V (2D) |                 |                     |       |                      |             |
|-----------|-----------------|---------------------|-------|----------------------|-------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code        |
| 1000      | 35 × 80         | 1.7                 | 0.15  | 1.34                 | LNT2D102MSE |
| 1500      | 35 × 100        | 2.3                 | 0.15  | 1.64                 | LNT2D152MSE |
| 2200      | 51 × 80         | 2.9                 | 0.15  | 1.99                 | LNT2D222MSE |
| 3300      | 51 × 100        | 3.9                 | 0.15  | 2.43                 | LNT2D332MSE |
| 4700      | 63.5 × 100      | 5.1                 | 0.20  | 2.90                 | LNT2D472MSE |
| 6800      | 63.5 × 120      | 7.0                 | 0.20  | 3.49                 | LNT2D682MSE |
| 10000     | 76.2 × 120      | 8.2                 | 0.20  | 4.24                 | LNT2D103MSE |
| 15000     | 76.2 × 140      | 10.4                | 0.20  | 5.00                 | LNT2D153MSE |
| 22000     | 90 × 140        | 15.1                | 0.25  | 5.00                 | LNT2D223MSE |
| 33000     | 90 × 220        | 16.6                | 0.25  | 5.00                 | LNT2D333MSE |
| 47000     | 90 × 250        | 19.9                | 0.25  | 5.00                 | LNT2D473MSE |

| 250V (2E) |                 |                     |       |                      |             |
|-----------|-----------------|---------------------|-------|----------------------|-------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code        |
| 680       | 35 × 80         | 1.4                 | 0.15  | 1.23                 | LNT2E681MSE |
| 1000      | 35 × 100        | 1.9                 | 0.15  | 1.50                 | LNT2E102MSE |
| 1500      | 51 × 80         | 2.4                 | 0.15  | 1.83                 | LNT2E152MSE |
| 2200      | 51 × 100        | 3.2                 | 0.15  | 2.22                 | LNT2E222MSE |
| 3300      | 63.5 × 100      | 4.3                 | 0.20  | 2.72                 | LNT2E332MSE |
| 4700      | 63.5 × 120      | 5.9                 | 0.20  | 3.25                 | LNT2E472MSE |
| 6800      | 76.2 × 120      | 7.1                 | 0.20  | 3.91                 | LNT2E682MSE |
| 10000     | 90 × 140        | 9.6                 | 0.25  | 4.74                 | LNT2E103MSE |
| 15000     | 90 × 170        | 12.7                | 0.25  | 5.00                 | LNT2E153MSE |
| 22000     | 90 × 220        | 15.4                | 0.25  | 5.00                 | LNT2E223MSE |
| 33000     | 100 × 250       | 17.0                | 0.25  | 5.00                 | LNT2E333MSE |

| 350V (2V) |                 |                     |       |                      |              |
|-----------|-----------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code         |
| 330       | 35 × 80         | 2.1                 | 0.20  | 1.01                 | LNT2V331MSEC |
| 470       | 35 × 80         | 2.8                 | 0.20  | 1.21                 | LNT2V471MSEC |
| 680       | 51 × 80         | 4.1                 | 0.20  | 1.46                 | LNT2V681MSEF |
| 1000      | 51 × 80         | 6.5                 | 0.20  | 1.77                 | LNT2V102MSEF |
| 1500      | 51 × 100        | 8.6                 | 0.20  | 2.17                 | LNT2V152MSEF |
| 2200      | 51 × 120        | 11.0                | 0.20  | 2.63                 | LNT2V222MSEF |
| 2700      | 63.5 × 100      | 12.7                | 0.20  | 2.91                 | LNT2V272MSEG |
| 3300      | 63.5 × 110      | 14.4                | 0.20  | 3.22                 | LNT2V332MSEG |
| 3900      | 63.5 × 130      | 16.8                | 0.20  | 3.50                 | LNT2V392MSEG |
| 4700      | 63.5 × 150      | 19.8                | 0.20  | 3.84                 | LNT2V472MSEG |
|           | 76.2 × 120      | 19.7                | 0.20  | 3.84                 | LNT2V472MSEH |
| 5600      | 63.5 × 170      | 22.7                | 0.20  | 4.20                 | LNT2V562MSEG |
|           | 76.2 × 130      | 22.2                | 0.20  | 4.20                 | LNT2V562MSEH |
| 6800      | 76.2 × 150      | 26.2                | 0.20  | 4.62                 | LNT2V682MSEH |
| 8200      | 76.2 × 170      | 30.3                | 0.20  | 5.00                 | LNT2V822MSEH |
|           | 90 × 150        | 29.3                | 0.20  | 5.00                 | LNT2V822MSEJ |
| 10000     | 90 × 150        | 32.4                | 0.20  | 5.00                 | LNT2V103MSEJ |
| 12000     | 90 × 190        | 36.0                | 0.20  | 5.00                 | LNT2V123MSEJ |
| 15000     | 90 × 220        | 42.9                | 0.20  | 5.00                 | LNT2V153MSEJ |
| 22000     | 100 × 250       | 48.0                | 0.20  | 5.00                 | LNT2V223MSEK |

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

## LNT

### ■ Dimensions

| 400V (2G) |                 |                     |       |                      |              |
|-----------|-----------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code         |
| 220       | 35 × 80         | 1.6                 | 0.20  | 0.88                 | LNT2G221MSEC |
| 330       | 35 × 80         | 2.3                 | 0.20  | 1.09                 | LNT2G331MSEC |
| 470       | 35 × 100        | 3.1                 | 0.20  | 1.30                 | LNT2G471MSEC |
| 680       | 51 × 80         | 4.2                 | 0.20  | 1.56                 | LNT2G681MSEF |
| 1000      | 51 × 80         | 6.6                 | 0.20  | 1.89                 | LNT2G102MSEF |
| 1500      | 51 × 120        | 9.1                 | 0.20  | 2.32                 | LNT2G152MSEF |
| 2200      | 63.5 × 100      | 11.5                | 0.20  | 2.81                 | LNT2G222MSEG |
| 2700      | 63.5 × 110      | 13.1                | 0.20  | 3.11                 | LNT2G272MSEG |
| 3300      | 63.5 × 130      | 15.4                | 0.20  | 3.44                 | LNT2G332MSEG |
| 3900      | 63.5 × 150      | 17.9                | 0.20  | 3.74                 | LNT2G392MSEG |
|           | 76.2 × 110      | 18.2                | 0.20  | 3.74                 | LNT2G392MSEH |
| 4700      | 63.5 × 170      | 20.7                | 0.20  | 4.11                 | LNT2G472MSEG |
|           | 76.2 × 130      | 20.3                | 0.20  | 4.11                 | LNT2G472MSEH |
| 5600      | 76.2 × 150      | 23.7                | 0.20  | 4.49                 | LNT2G562MSEH |
| 6800      | 76.2 × 170      | 27.6                | 0.20  | 4.94                 | LNT2G682MSEH |
|           | 90 × 150        | 26.9                | 0.20  | 4.94                 | LNT2G682MSEJ |
| 8200      | 90 × 170        | 31.0                | 0.20  | 5.00                 | LNT2G822MSEJ |
| 10000     | 90 × 190        | 32.9                | 0.20  | 5.00                 | LNT2G103MSEJ |
| 12000     | 90 × 220        | 38.3                | 0.20  | 5.00                 | LNT2G123MSEJ |
| 15000     | 100 × 220       | 44.5                | 0.20  | 5.00                 | LNT2G153MSEK |

| 450V (2W) |                 |                     |       |                      |              |
|-----------|-----------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code         |
| 220       | 35 × 80         | 1.8                 | 0.20  | 0.94                 | LNT2W221MSEC |
| 330       | 35 × 100        | 2.4                 | 0.20  | 1.15                 | LNT2W331MSEC |
| 470       | 51 × 80         | 3.4                 | 0.20  | 1.37                 | LNT2W471MSEF |
| 680       | 51 × 100        | 4.4                 | 0.20  | 1.65                 | LNT2W681MSEF |
| 1000      | 51 × 100        | 7.0                 | 0.20  | 2.01                 | LNT2W102MSEF |
| 1500      | 51 × 120        | 9.2                 | 0.20  | 2.46                 | LNT2W152MSEF |
| 2200      | 63.5 × 110      | 11.8                | 0.20  | 2.98                 | LNT2W222MSEG |
| 2700      | 63.5 × 130      | 13.8                | 0.20  | 3.30                 | LNT2W272MSEG |
|           | 76.2 × 110      | 14.5                | 0.20  | 3.30                 | LNT2W272MSEH |
| 3300      | 63.5 × 150      | 16.5                | 0.20  | 3.65                 | LNT2W332MSEG |
|           | 76.2 × 130      | 17.1                | 0.20  | 3.65                 | LNT2W332MSEH |
| 3900      | 63.5 × 170      | 18.3                | 0.20  | 3.97                 | LNT2W392MSEG |
| 4700      | 76.2 × 150      | 21.7                | 0.20  | 4.36                 | LNT2W472MSEH |
| 5600      | 76.2 × 190      | 26.4                | 0.20  | 4.76                 | LNT2W562MSEH |
|           | 90 × 150        | 24.1                | 0.20  | 4.76                 | LNT2W562MSEJ |
| 6800      | 90 × 170        | 28.3                | 0.20  | 5.00                 | LNT2W682MSEJ |
| 8200      | 90 × 190        | 32.5                | 0.20  | 5.00                 | LNT2W822MSEJ |
| 10000     | 90 × 220        | 35.1                | 0.20  | 5.00                 | LNT2W103MSEJ |
| 12000     | 90 × 230        | 39.2                | 0.20  | 5.00                 | LNT2W123MSEJ |
| 15000     | 90 × 250        | 45.6                | 0.20  | 5.00                 | LNT2W153MSEJ |

| 500V (2H) |                 |                     |       |                      |              |
|-----------|-----------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code         |
| 330       | 51 × 80         | 2.7                 | 0.20  | 1.21                 | LNT2H331MSEF |
| 470       | 51 × 80         | 3.2                 | 0.20  | 1.45                 | LNT2H471MSEF |
| 680       | 51 × 100        | 4.2                 | 0.20  | 1.74                 | LNT2H681MSEF |
| 1000      | 51 × 120        | 5.5                 | 0.20  | 2.12                 | LNT2H102MSEF |
| 1500      | 63.5 × 110      | 7.1                 | 0.20  | 2.59                 | LNT2H152MSEG |
| 2200      | 63.5 × 130      | 9.3                 | 0.20  | 3.14                 | LNT2H222MSEG |
| 2700      | 63.5 × 150      | 11.0                | 0.20  | 3.48                 | LNT2H272MSEG |
|           | 76.2 × 130      | 11.0                | 0.20  | 3.48                 | LNT2H272MSEH |
| 3300      | 63.5 × 170      | 12.9                | 0.20  | 3.85                 | LNT2H332MSEG |
|           | 76.2 × 150      | 13.0                | 0.20  | 3.85                 | LNT2H332MSEH |
| 3900      | 76.2 × 150      | 14.1                | 0.20  | 4.18                 | LNT2H392MSEH |
| 4700      | 76.2 × 190      | 17.2                | 0.20  | 4.59                 | LNT2H472MSEH |
|           | 90 × 150        | 16.3                | 0.20  | 4.59                 | LNT2H472MSEJ |
| 5600      | 90 × 150        | 17.8                | 0.20  | 5.00                 | LNT2H562MSEJ |
| 6800      | 90 × 170        | 20.7                | 0.20  | 5.00                 | LNT2H682MSEJ |
| 8200      | 90 × 220        | 25.5                | 0.20  | 5.00                 | LNT2H822MSEJ |
| 10000     | 90 × 250        | 29.9                | 0.20  | 5.00                 | LNT2H103MSEJ |

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

### ● Frequency coefficient of rated ripple current

| Coeff.      | Frequency (Hz) |      |      |      |      |             |
|-------------|----------------|------|------|------|------|-------------|
|             | 10 to 100V     | 60   | 120  | 360  | 1k   | 10k or more |
|             | 160 to 250V    | 0.90 | 1.00 | 1.08 | 1.15 | 1.15        |
| 350 to 500V | 0.88           | 1.00 | 1.08 | 1.15 | 1.20 |             |
|             | 0.82           | 1.00 | 1.20 | 1.35 | 1.40 |             |

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