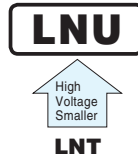


ALUMINUM ELECTROLYTIC CAPACITORS

LNU

Screw Terminal Type, 105°C
High Voltage, Smaller Sized.

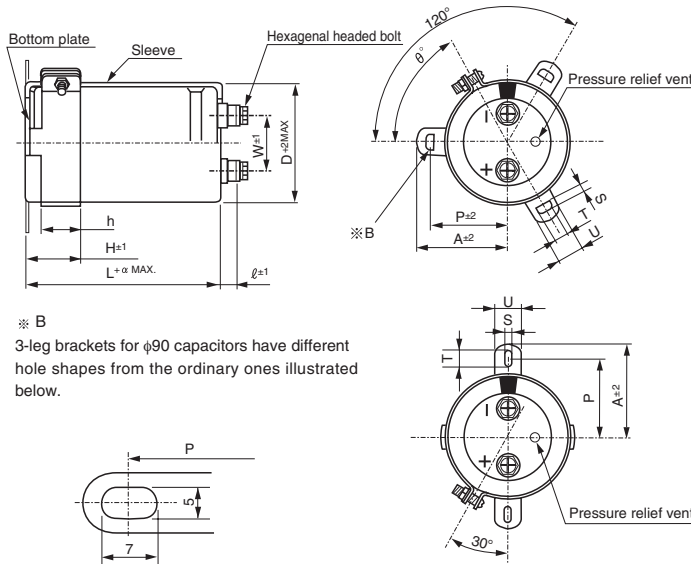


- Suited for use in industrial power supplies for inverter circuitry, etc.
- Rated voltage range up to DC525V.
- Load life of 5000 hours application of ripple current at 105°C.
- High voltage / Smaller sized than LNT.
- Coped with loading of high speed charge-discharge.
- Suited for high frequency regenerative voltage for AC servomotor, general inverter.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

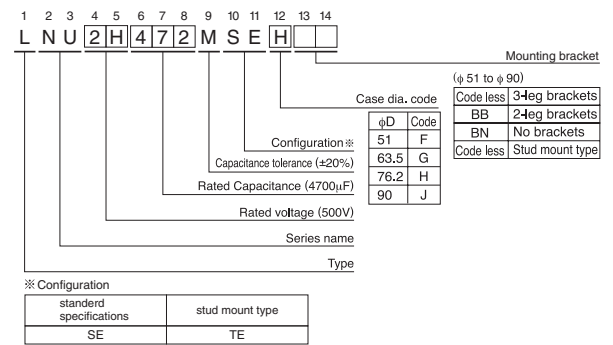
Specifications

| Item | Performance Characteristics | |
|--|---|--|
| Category Temperature Range | - 40 to +105°C | |
| Rated Voltage Range | 400 to 525V | |
| Rated Capacitance Range | 680 to 18000μF | |
| Capacitance Tolerance | ±20% (120Hz, 20°C) | |
| Leakage Current | After 5 minutes' application of rated voltage, leakage current is not more than $3\sqrt{CV}$ (μA) or 5 mA, whichever is smaller. (at 20°C) [C: Rated Capacitance(μF), V: Voltage (V)] | |
| Tangent of loss angle (tan δ) | See refer to next page (Measurement frequency : 120Hz at 20°C) | |
| Stability at Low Temperature | Rated voltage(V) | 400 to 525 |
| | Impedance ratio ZT/Z20(MAX.) | $Z - 40^{\circ}\text{C} / Z + 20^{\circ}\text{C}$ 8 |
| Measurement frequency : 120Hz | | |
| Insulation Resistance | The insulation resistance shall be more than 100MΩ at DC 500V application between terminal and bracket. | |
| Voltage proof | There is no abnormality during AC 2500V 1 minute's application between terminal and bracket. | |
| 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 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 |
| 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 ±20% of the initial capacitance value |
| | tan δ | 200% or less than the initial specified value |
| Endurance of charge - discharge behavior | After an application of charge-discharge voltage for 50million times (charge-discharge voltage difference(ΔV) = rated voltage × 0.3, cycle 3Hz) capacitors shall meet the characteristics requirement 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



Type numbering system (Example : 500V 4700μF)



Please refer to page 348 for schematic of dimensions.
※ Please contact to us if PVC less products are required.

Note) The brackets will be supplied in the separate box.

Dimension of terminal pitch (W) and length (ℓ) and Nominal dia. of bolt (mm)

| φD | W | ℓ | α | Nominal dia. 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 |

About product of stud bolt
* Nylon nut and nylon washer attachment become the standard specifications. (cf. P.348)
* It is not attached to the bracket.
* Field 13 and 14 become blank in Type number system.

Dimensions of mounting bracket (mm)

| Leg shape | Symbol | 3-Leg | | | | 2-Leg | | | |
|-----------|--------|-------|------|------|------|-------|------|------|-----|
| | | 51 | 63.5 | 76.2 | 90 | 51 | 63.5 | 76.2 | 90 |
| P | | 32.5 | 38.1 | 44.5 | 50.8 | 33.2 | 40.5 | 46.5 | 53 |
| A | | 38.5 | 43 | 49.2 | 58.5 | 40 | 46.5 | 53 | 59 |
| T | | 7.5 | 8.0 | 7.0 | 8.0 | 6.0 | 7.0 | 6.0 | 6.0 |
| S | | 5.0 | 5.0 | 5.0 | 5.0 | 4.5 | 4.5 | 4.5 | 4.5 |
| U | | 12 | 14 | 14 | 18 | 14 | 14 | 14 | 14 |
| θ° | | 60 | 60 | 60 | 60 | 30 | 30 | 30 | 30 |
| H | | 20 | 25 | 30 | 35 | 25 | 35 | 35 | 35 |
| h | | 15 | 20 | 24 | 25 | 15 | 20 | 20 | 20 |

Dimension table in next page.

LNU

■ Dimensions

| 400V (2G) | | | | | |
|-----------|-----------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code |
| 2700 | 63.5 × 80 | 11.9 | 0.20 | 3.12 | LNU2G272MSEG |
| 3300 | 63.5 × 95 | 13.6 | 0.20 | 3.45 | LNU2G332MSEG |
| | 76.2 × 75 | 13.1 | 0.20 | 3.45 | LNU2G332MSEH |
| 3900 | 63.5 × 100 | 14.6 | 0.20 | 3.75 | LNU2G392MSEG |
| | 76.2 × 85 | 14.3 | 0.20 | 3.75 | LNU2G392MSEH |
| 4700 | 63.5 × 120 | 16.1 | 0.20 | 4.11 | LNU2G472MSEG |
| | 76.2 × 95 | 15.8 | 0.20 | 4.11 | LNU2G472MSEH |
| 5600 | 63.5 × 135 | 17.7 | 0.20 | 4.49 | LNU2G562MSEG |
| | 76.2 × 105 | 17.1 | 0.20 | 4.49 | LNU2G562MSEH |
| 6800 | 76.2 × 125 | 19.5 | 0.20 | 4.95 | LNU2G682MSEH |
| | 90 × 105 | 18.8 | 0.20 | 4.95 | LNU2G682MSEJ |
| 8200 | 76.2 × 170 | 24.2 | 0.20 | 5.00 | LNU2G822MSEH |
| | 90 × 125 | 23.1 | 0.20 | 5.00 | LNU2G822MSEJ |
| 10000 | 90 × 145 | 25.9 | 0.20 | 5.00 | LNU2G103MSEJ |
| 12000 | 90 × 165 | 30.1 | 0.20 | 5.00 | LNU2G123MSEJ |
| 15000 | 90 × 195 | 33.5 | 0.20 | 5.00 | LNU2G153MSEJ |
| 18000 | 90 × 235 | 38.0 | 0.20 | 5.00 | LNU2G183MSEJ |

| 450V (2W) | | | | | |
|-----------|-----------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code |
| 2700 | 63.5 × 100 | 13.1 | 0.20 | 3.31 | LNU2W272MSEG |
| 3300 | 63.5 × 120 | 15.0 | 0.20 | 3.66 | LNU2W332MSEG |
| | 76.2 × 95 | 14.4 | 0.20 | 3.66 | LNU2W332MSEH |
| 3900 | 63.5 × 135 | 16.3 | 0.20 | 3.97 | LNU2W392MSEG |
| | 76.2 × 105 | 15.4 | 0.20 | 3.97 | LNU2W392MSEH |
| 4700 | 63.5 × 165 | 18.5 | 0.20 | 4.36 | LNU2W472MSEG |
| | 76.2 × 130 | 17.9 | 0.20 | 4.36 | LNU2W472MSEH |
| 5600 | 76.2 × 150 | 20.5 | 0.20 | 4.76 | LNU2W562MSEH |
| | 90 × 105 | 19.6 | 0.20 | 4.76 | LNU2W562MSEJ |
| 6800 | 76.2 × 170 | 23.4 | 0.20 | 5.00 | LNU2W682MSEH |
| | 90 × 125 | 22.5 | 0.20 | 5.00 | LNU2W682MSEJ |
| 8200 | 76.2 × 195 | 25.7 | 0.20 | 5.00 | LNU2W822MSEH |
| | 90 × 145 | 24.7 | 0.20 | 5.00 | LNU2W822MSEJ |
| 10000 | 90 × 165 | 27.3 | 0.20 | 5.00 | LNU2W103MSEJ |
| 12000 | 90 × 195 | 29.9 | 0.20 | 5.00 | LNU2W123MSEJ |
| 15000 | 90 × 235 | 34.5 | 0.20 | 5.00 | LNU2W153MSEJ |

| 500V (2H) | | | | | |
|-----------|-----------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code |
| 680 | 51 × 75 | 4.0 | 0.20 | 1.75 | LNU2H681MSEF |
| 1000 | 51 × 90 | 5.0 | 0.20 | 2.12 | LNU2H102MSEF |
| 1200 | 51 × 115 | 5.7 | 0.20 | 2.32 | LNU2H122MSEF |
| | 63.5 × 80 | 5.7 | 0.20 | 2.32 | LNU2H122MSEG |
| 1500 | 51 × 135 | 6.6 | 0.20 | 2.60 | LNU2H152MSEF |
| | 63.5 × 90 | 6.6 | 0.20 | 2.60 | LNU2H152MSEG |
| 1800 | 63.5 × 100 | 7.4 | 0.20 | 2.85 | LNU2H182MSEG |
| | 76.2 × 70 | 7.4 | 0.20 | 2.85 | LNU2H182MSEH |
| 2200 | 63.5 × 120 | 8.5 | 0.20 | 3.15 | LNU2H222MSEG |
| | 76.2 × 95 | 8.5 | 0.20 | 3.15 | LNU2H222MSEH |
| 2700 | 63.5 × 135 | 9.6 | 0.20 | 3.49 | LNU2H272MSEG |
| | 76.2 × 105 | 9.6 | 0.20 | 3.49 | LNU2H272MSEH |
| 3300 | 63.5 × 165 | 10.9 | 0.20 | 3.85 | LNU2H332MSEG |
| | 76.2 × 130 | 10.9 | 0.20 | 3.85 | LNU2H332MSEH |
| 3900 | 76.2 × 145 | 12.4 | 0.20 | 4.19 | LNU2H392MSEH |
| | 90 × 105 | 12.4 | 0.20 | 4.19 | LNU2H392MSEJ |
| 4700 | 76.2 × 165 | 13.9 | 0.20 | 4.60 | LNU2H472MSEH |
| | 90 × 125 | 13.9 | 0.20 | 4.60 | LNU2H472MSEJ |
| 5600 | 90 × 145 | 15.8 | 0.20 | 5.00 | LNU2H562MSEJ |
| 6800 | 90 × 165 | 18.5 | 0.20 | 5.00 | LNU2H682MSEJ |
| 8200 | 90 × 205 | 20.2 | 0.20 | 5.00 | LNU2H822MSEJ |

| 525V (N7) | | | | | |
|-----------|-----------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code |
| 680 | 51 × 85 | 4.4 | 0.20 | 1.75 | LNUN7681MSEF |
| 1000 | 51 × 95 | 5.4 | 0.20 | 2.12 | LNUN7102MSEF |
| 1500 | 63.5 × 95 | 7.2 | 0.20 | 2.60 | LNUN7152MSEG |
| 1800 | 63.5 × 105 | 8.0 | 0.20 | 2.85 | LNUN7182MSEG |
| 2200 | 63.5 × 135 | 9.2 | 0.20 | 3.15 | LNUN7222MSEG |
| | 76.2 × 100 | 9.2 | 0.20 | 3.15 | LNUN7222MSEH |
| 2700 | 76.2 × 115 | 10.6 | 0.20 | 3.49 | LNUN7272MSEH |
| 3300 | 76.2 × 140 | 12.1 | 0.20 | 3.85 | LNUN7332MSEH |
| 4700 | 76.2 × 185 | 15.2 | 0.20 | 4.60 | LNUN7472MSEH |
| | 90 × 135 | 15.2 | 0.20 | 4.60 | LNUN7472MSEJ |
| 5600 | 90 × 155 | 17.5 | 0.20 | 5.00 | LNUN7562MSEJ |

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

● Frequency coefficient of rated ripple current

| Frequency (Hz) | 50 | 60 | 120 | 360 | 1k | 10k or more |
|----------------|------|------|------|------|------|-------------|
| Coefficient | 0.80 | 0.82 | 1.00 | 1.20 | 1.30 | 1.40 |

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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