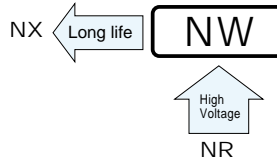


ALUMINUM ELECTROLYTIC CAPACITORS



NW series Screw Terminal Type, 85°C High Voltage

- Suited for general inverter.
- Load life of 2000 hours application of ripple current at 85°C
- Compliant to the RoHS directive (2002/95/EC).

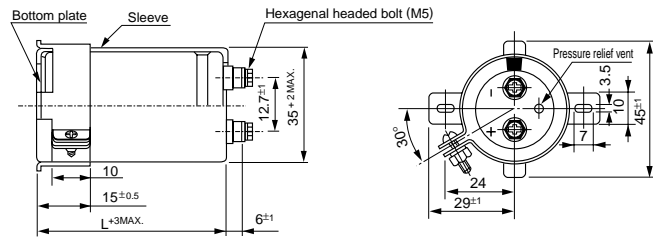


Specifications

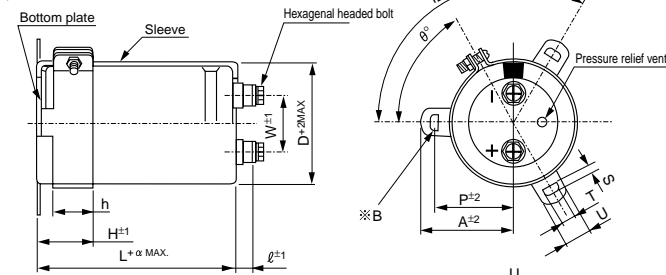
| Item | Performance Characteristics | |
|-------------------------------|---|---|
| Category Temperature Range | - 25 to +85°C | |
| Rated Voltage Range | 350 to 550V | |
| Rated Capacitance Range | 100 to 12000μF | |
| Capacitance Tolerance | ±20% (120Hz, 20°C) | |
| Leakage Current | Less than $3 \sqrt{CV}$ (μA) after 5 minutes' application [C:Rated capacitance (μF), V:Voltage (V)] | |
| Tangent of loss angle (tan δ) | 0.25MAX. (120Hz, 20°C) | |
| Stability at Low Temperature | Rated voltage(V) | 350 to 550 |
| | Impedance ratio ZT/Z20(MAX.) | Z - 25°C / Z+20°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 | Capacitance change | Within ±20% of the initial capacitance value |
| | tan δ | 300% 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 85°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 | 300% or less than the initial specified value |
| Marking | Printed with white color letter on black sleeve | |

Drawing

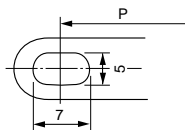
φ35 Screw terminal type



φ51 to 90 Screw terminal type

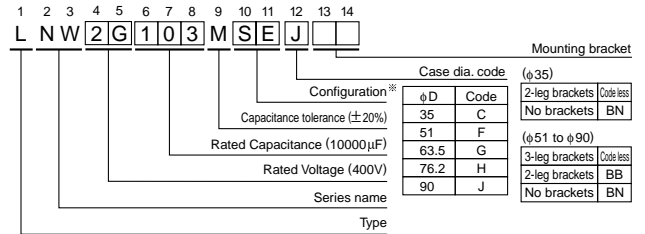


※ B
3-leg brackets for φ90 capacitors have different hole shapes from the ordinary ones illustrated below.



Note) The terminal bolts and mounting brackets will be delivered

Type numbering system (Example: 400V 10000μF)



※ Configuration

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

Resin bushing available upon request.
※ Please contact to us if PVC less products are required.

● 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 |

● Dimension of mounting bracket (mm)

| Symbol | φD | 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.

■Dimensions

| 350V (2V) | | | | | |
|-----------|------------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L (mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code |
| 390 | 35×50 | 2.1 | 0.25 | 1.10 | LNW2V391MSEC |
| 470 | 35×60 | 2.5 | 0.25 | 1.21 | LNW2V471MSEC |
| 560 | 35×70 | 2.9 | 0.25 | 1.32 | LNW2V561MSEC |
| 680 | 35×80 | 3.3 | 0.25 | 1.46 | LNW2V681MSEC |
| 820 | 35×90 | 3.7 | 0.25 | 1.60 | LNW2V821MSEC |
| 1000 | 35×100 | 4.3 | 0.25 | 1.77 | LNW2V102MSEC |
| 1200 | 35×120 | 5.1 | 0.25 | 1.94 | LNW2V122MSEC |
| 1500 | 51×75 | 5.7 | 0.25 | 2.17 | LNW2V152MSEF |
| 1800 | 51×85 | 6.6 | 0.25 | 2.38 | LNW2V182MSEF |
| 2200 | 51×95 | 7.6 | 0.25 | 2.63 | LNW2V222MSEF |
| 2700 | 51×115 | 9.2 | 0.25 | 2.91 | LNW2V272MSEF |
| 3300 | 51×130 | 10.8 | 0.25 | 3.22 | LNW2V332MSEF |
| | 63.5×95 | 10.6 | 0.25 | 3.22 | LNW2V332MSEG |
| 3900 | 63.5×115 | 12.5 | 0.25 | 3.50 | LNW2V392MSEG |
| 4700 | 63.5×130 | 14.5 | 0.25 | 3.84 | LNW2V472MSEG |
| | 76.2×95 | 14.0 | 0.25 | 3.84 | LNW2V472MSEH |
| 5600 | 76.2×115 | 16.6 | 0.25 | 4.20 | LNW2V562MSEH |
| 6800 | 76.2×130 | 17.9 | 0.25 | 4.62 | LNW2V682MSEH |
| 8200 | 76.2×155 | 19.9 | 0.25 | 5.00 | LNW2V822MSEH |
| 10000 | 76.2×170 | 22.0 | 0.25 | 5.00 | LNW2V103MSEH |
| | 90×130 | 21.5 | 0.25 | 5.00 | LNW2V103MSEJ |
| 12000 | 90×155 | 24.8 | 0.25 | 5.00 | LNW2V123MSEJ |

| 400V (2G) | | | | | |
|-----------|------------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L (mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code |
| 330 | 35×50 | 1.9 | 0.25 | 1.09 | LNW2G331MSEC |
| 390 | 35×60 | 2.3 | 0.25 | 1.18 | LNW2G391MSEC |
| 470 | 35×70 | 2.7 | 0.25 | 1.30 | LNW2G471MSEC |
| 560 | 35×80 | 3.1 | 0.25 | 1.42 | LNW2G561MSEC |
| 680 | 35×90 | 3.6 | 0.25 | 1.56 | LNW2G681MSEC |
| 820 | 35×100 | 4.1 | 0.25 | 1.71 | LNW2G821MSEC |
| 1000 | 35×120 | 5.0 | 0.25 | 1.89 | LNW2G102MSEC |
| 1200 | 51×75 | 5.5 | 0.25 | 2.07 | LNW2G122MSEF |
| 1500 | 51×85 | 6.5 | 0.25 | 2.32 | LNW2G152MSEF |
| 1800 | 51×95 | 7.4 | 0.25 | 2.54 | LNW2G182MSEF |
| 2200 | 51×130 | 9.4 | 0.25 | 2.81 | LNW2G222MSEF |
| 2700 | 63.5×95 | 10.2 | 0.25 | 3.11 | LNW2G272MSEG |
| 3300 | 63.5×115 | 12.1 | 0.25 | 3.44 | LNW2G332MSEG |
| 3900 | 63.5×130 | 13.7 | 0.25 | 3.74 | LNW2G392MSEG |
| | 76.2×95 | 13.2 | 0.25 | 3.74 | LNW2G392MSEH |
| 4700 | 76.2×115 | 15.5 | 0.25 | 4.11 | LNW2G472MSEH |
| 5600 | 76.2×130 | 17.5 | 0.25 | 4.49 | LNW2G562MSEH |
| 6800 | 76.2×155 | 20.5 | 0.25 | 4.94 | LNW2G682MSEH |
| 8200 | 76.2×170 | 23.1 | 0.25 | 5.00 | LNW2G822MSEH |
| | 90×130 | 22.6 | 0.25 | 5.00 | LNW2G822MSEJ |
| 10000 | 90×155 | 26.5 | 0.25 | 5.00 | LNW2G103MSEJ |

| 450V (2W) | | | | | |
|-----------|------------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L (mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code |
| 270 | 35×50 | 1.8 | 0.25 | 1.04 | LNW2W271MSEC |
| 330 | 35×60 | 2.1 | 0.25 | 1.15 | LNW2W331MSEC |
| 390 | 35×70 | 2.4 | 0.25 | 1.25 | LNW2W391MSEC |
| 470 | 35×80 | 2.9 | 0.25 | 1.37 | LNW2W471MSEC |
| 560 | 35×90 | 3.3 | 0.25 | 1.50 | LNW2W561MSEC |
| 680 | 35×100 | 3.9 | 0.25 | 1.65 | LNW2W681MSEC |
| 820 | 35×120 | 4.6 | 0.25 | 1.82 | LNW2W821MSEC |
| 1000 | 51×75 | 5.0 | 0.25 | 2.01 | LNW2W102MSEF |
| 1200 | 51×95 | 6.1 | 0.25 | 2.20 | LNW2W122MSEF |
| 1500 | 51×115 | 7.4 | 0.25 | 2.46 | LNW2W152MSEF |
| 1800 | 51×130 | 8.5 | 0.25 | 2.70 | LNW2W182MSEF |
| 2200 | 63.5×95 | 9.1 | 0.25 | 2.98 | LNW2W222MSEG |
| 2700 | 63.5×115 | 10.9 | 0.25 | 3.30 | LNW2W272MSEG |
| 3300 | 63.5×130 | 12.8 | 0.25 | 3.65 | LNW2W332MSEG |
| | 76.2×95 | 12.4 | 0.25 | 3.65 | LNW2W332MSEH |
| 3900 | 76.2×115 | 14.4 | 0.25 | 3.97 | LNW2W392MSEH |
| 4700 | 76.2×130 | 16.3 | 0.25 | 4.36 | LNW2W472MSEH |
| 5600 | 76.2×155 | 18.9 | 0.25 | 4.76 | LNW2W562MSEH |
| 6800 | 76.2×170 | 21.4 | 0.25 | 5.00 | LNW2W682MSEH |
| | 90×130 | 20.9 | 0.25 | 5.00 | LNW2W682MSEJ |
| 8200 | 90×155 | 24.4 | 0.25 | 5.00 | LNW2W822MSEJ |

| 500V (2H) | | | | | |
|-----------|------------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L (mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code |
| 120 | 35×50 | 0.8 | 0.25 | 0.73 | LNW2H121MSEC |
| 180 | 35×60 | 1.0 | 0.25 | 0.90 | LNW2H181MSEC |
| 270 | 35×80 | 1.3 | 0.25 | 1.10 | LNW2H271MSEC |
| 330 | 35×100 | 1.6 | 0.25 | 1.21 | LNW2H331MSEC |
| 390 | 35×120 | 1.9 | 0.25 | 1.32 | LNW2H391MSEC |
| 470 | 51×75 | 2.1 | 0.25 | 1.45 | LNW2H471MSEF |
| 560 | 51×85 | 2.4 | 0.25 | 1.58 | LNW2H561MSEF |
| 680 | 51×95 | 2.8 | 0.25 | 1.74 | LNW2H681MSEF |
| 820 | 51×115 | 3.3 | 0.25 | 1.92 | LNW2H821MSEF |
| 1000 | 51×130 | 3.9 | 0.25 | 2.12 | LNW2H102MSEF |
| | 63.5×95 | 3.8 | 0.25 | 2.12 | LNW2H102MSEG |
| 1200 | 63.5×95 | 4.2 | 0.25 | 2.32 | LNW2H122MSEG |
| 1500 | 63.5×115 | 5.1 | 0.25 | 2.59 | LNW2H152MSEG |
| | 76.2×95 | 5.2 | 0.25 | 2.59 | LNW2H152MSEH |
| 1800 | 63.5×130 | 5.9 | 0.25 | 2.84 | LNW2H182MSEG |
| 2200 | 76.2×115 | 6.8 | 0.25 | 3.14 | LNW2H222MSEH |
| 2700 | 76.2×155 | 8.6 | 0.25 | 3.48 | LNW2H272MSEH |
| 3300 | 76.2×170 | 9.9 | 0.25 | 3.85 | LNW2H332MSEH |
| | 90×130 | 9.7 | 0.25 | 3.85 | LNW2H332MSEJ |
| 3900 | 90×155 | 11.4 | 0.25 | 4.18 | LNW2H392MSEJ |

Rated ripple current (Arms) at 85°C 120Hz

NW series

■ Dimensions

| 550V (2L) | | | | | |
|-----------|-----------------|---------------------|-------|----------------------|--------------|
| Cap. (μF) | Size φD × L(mm) | Rated ripple (Arms) | tan δ | Leakage Current (mA) | Code |
| 100 | 35 × 50 | 0.7 | 0.25 | 0.70 | LNW2L101MSEC |
| 120 | 35 × 50 | 0.8 | 0.25 | 0.77 | LNW2L121MSEC |
| 180 | 35 × 80 | 1.1 | 0.25 | 0.94 | LNW2L181MSEC |
| 270 | 35 × 100 | 1.5 | 0.25 | 1.15 | LNW2L271MSEC |
| 330 | 35 × 120 | 1.8 | 0.25 | 1.27 | LNW2L331MSEC |
| 390 | 51 × 75 | 1.9 | 0.25 | 1.38 | LNW2L391MSEF |
| 470 | 51 × 85 | 2.2 | 0.25 | 1.52 | LNW2L471MSEF |
| 560 | 51 × 95 | 2.5 | 0.25 | 1.66 | LNW2L561MSEF |
| | 63.5 × 95 | 2.9 | 0.25 | 1.66 | LNW2L561MSEG |
| 680 | 51 × 115 | 3.0 | 0.25 | 1.83 | LNW2L681MSEF |
| | 63.5 × 115 | 3.4 | 0.25 | 1.83 | LNW2L681MSEG |
| 820 | 51 × 130 | 3.5 | 0.25 | 2.01 | LNW2L821MSEF |
| | 63.5 × 130 | 4.0 | 0.25 | 2.01 | LNW2L821MSEG |
| 1000 | 63.5 × 130 | 4.4 | 0.25 | 2.22 | LNW2L102MSEG |
| 1200 | 76.2 × 95 | 4.6 | 0.25 | 2.43 | LNW2L122MSEH |
| 1500 | 76.2 × 115 | 5.6 | 0.25 | 2.72 | LNW2L152MSEH |
| 1800 | 76.2 × 130 | 6.5 | 0.25 | 2.98 | LNW2L182MSEH |
| 2200 | 76.2 × 155 | 7.8 | 0.25 | 3.30 | LNW2L222MSEH |
| 2700 | 76.2 × 170 | 9.0 | 0.25 | 3.66 | LNW2L272MSEH |
| | 90 × 130 | 8.8 | 0.25 | 3.66 | LNW2L272MSEJ |
| 3300 | 90 × 155 | 10.4 | 0.25 | 4.04 | LNW2L332MSEJ |

Rated ripple current (Arms) at 85°C 120Hz

● Frequency coefficient of rated ripple current

| Frequency (Hz) | 50 | 60 | 120 | 300 | 1k | 10k or more |
|----------------|------|------|------|------|------|-------------|
| Coefficient | 0.80 | 0.82 | 1.00 | 1.10 | 1.35 | 1.40 |

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[LNW2V821MSEC](#) [LNW2V102MSEC](#) [LNW2V122MSEC](#) [LNW2V152MSEF](#) [LNW2V182MSEF](#) [LNW2V222MSEF](#)
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[LNW2W472MSEH](#) [LNW2W562MSEH](#) [LNW2W682MSEH](#) [LNW2W682MSEJ](#) [LNW2W822MSEJ](#) [LNW2H181MSEC](#)
[LNW2H271MSEC](#) [LNW2H331MSEC](#) [LNW2H391MSEC](#) [LNW2H471MSEF](#) [LNW2H561MSEF](#) [LNW2H681MSEF](#)
[LNW2H821MSEF](#) [LNW2H102MSEF](#) [LNW2H102MSEG](#) [LNW2H122MSEG](#) [LNW2H152MSEG](#) [LNW2H152MSEH](#)
[LNW2H182MSEG](#) [LNW2H222MSEH](#) [LNW2H272MSEH](#) [LNW2H332MSEH](#) [LNW2H332MSEJ](#) [LNW2H392MSEJ](#)
[LNW2L101MSEC](#) [LNW2L121MSEC](#) [LNW2L181MSEC](#) [LNW2L271MSEC](#) [LNW2L331MSEC](#) [LNW2L391MSEF](#)
[LNW2L471MSEF](#) [LNW2L561MSEF](#) [LNW2L561MSEG](#) [LNW2L681MSEF](#) [LNW2L681MSEG](#) [LNW2L821MSEF](#)
[LNW2L821MSEG](#) [LNW2L102MSEG](#) [LNW2L122MSEH](#) [LNW2L152MSEH](#)