

**nichicon**

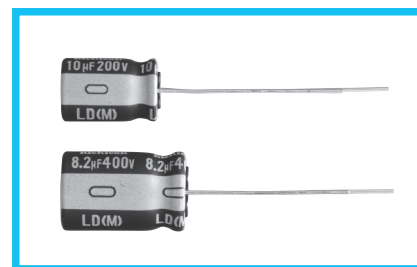
Miniature sized, Long Life Assurance



- UCY**  
**UHE**

Long Life

**ULD**

[illegible]

|          | (mm) |     |     |     |      |     |     |
|----------|------|-----|-----|-----|------|-----|-----|
| $\phi D$ | 5    | 6.3 | 8   | 10  | 12.5 | 16  | 18  |
| P        | 2.0  | 2.5 | 3.5 | 5.0 | 5.0  | 7.5 | 7.5 |
| $\phi d$ | 0.5  | 0.5 | 0.6 | 0.6 | 0.6  | 0.8 | 0.8 |
| $\alpha$ | 1.5  | 1.5 | 2.0 | 2.0 | 2.0  | 2.0 | 2.0 |

1 2 3 4 5 6 7 8 9 10 11 12

U L D 2 G 6 R 8 M P D □

Size code

Configuration ※

Capacitance tolerance (±20%)

Rated capacitance (6.8μF)

Rated voltage (400V)

Series name

Type

✖ Configuration

| $\phi$ D   | Pb-free leadwire Pb-free PET sleeve |
|------------|-------------------------------------|
| 5          | DD                                  |
| 6.3        | ED                                  |
| 8 • 10     | PD                                  |
| 12.5 to 18 | HD                                  |

- 240

CAT.8100E

ULD

## ■ Dimensions

| V   |      | 10     |     | 16     |     | 25     |     | 35     |     | 50     |     | 63     |     | 100                      |     |
|-----|------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------------------------|-----|
| Cap | Code | 1A     |     | 1C     |     | 1E     |     | 1V     |     | 1H     |     | 1J     |     | 2A                       |     |
| 1   | 010  |        |     |        |     |        |     |        |     | 5×11   | 25  |        |     | Case size<br>φD × L (mm) | ※   |
| 2.2 | 2R2  |        |     |        |     |        |     |        |     | 5×11   | 35  |        |     |                          |     |
| 3.3 | 3R3  |        |     |        |     |        |     |        |     | 5×11   | 70  |        |     |                          |     |
| 4.7 | 4R7  |        |     |        |     |        |     |        |     | 5×11   | 80  |        |     | 5×11                     | 70  |
| 6.8 | 6R8  |        |     |        |     |        |     |        |     | 5×11   | 80  |        |     | 5×11                     | 70  |
| 10  | 100  |        |     |        |     |        |     |        |     | 5×11   | 90  | 5×11   | 80  | 6.3×11                   | 150 |
| 22  | 220  |        |     |        |     |        |     |        |     | 5×11   | 135 | 6.3×11 | 170 | 8×11.5                   | 230 |
| 33  | 330  |        |     |        |     | 5×11   | 130 | 5×11   | 130 | 6.3×11 | 190 | 6.3×11 | 170 |                          |     |
| 47  | 470  |        |     | 5×11   | 130 | 5×11   | 130 | 6.3×11 | 210 | 6.3×11 | 190 | 8×11.5 | 240 |                          |     |
| 100 | 101  | 5×11   | 130 | 6.3×11 | 210 | 6.3×11 | 210 | 8×11.5 | 330 | 8×11.5 | 270 |        |     |                          |     |
| 150 | 151  |        |     | 6.3×11 | 210 | 8×11.5 | 330 |        |     |        |     |        |     |                          |     |
| 220 | 221  | 6.3×11 | 210 | 8×11.5 | 330 |        |     |        |     |        |     |        |     |                          |     |
| 270 | 271  |        |     | 8×11.5 | 330 |        |     |        |     |        |     |        |     |                          |     |
| 330 | 331  | 8×11.5 | 330 |        |     |        |     |        |     |        |     |        |     |                          |     |

## • Frequency coefficient of rated ripple current

※ : Rated ripple (mA<sub>rms</sub>) at 105°C 100kHz

| Cap.(μF)    | Frequency | 120Hz | 1kHz | 10kHz | 100kHz |
|-------------|-----------|-------|------|-------|--------|
| 1 to 10μF   |           | 0.42  | 0.60 | 0.80  | 1.00   |
| 22 to 33μF  |           | 0.55  | 0.75 | 0.90  | 1.00   |
| 47 to 330μF |           | 0.70  | 0.85 | 0.95  | 1.00   |

| V   |      | 160       |     | 200       |     | 250       |     | 400       |    | 450                      |     |
|-----|------|-----------|-----|-----------|-----|-----------|-----|-----------|----|--------------------------|-----|
| Cap | Code | 2C        |     | 2D        |     | 2E        |     | 2G        |    | 2W                       |     |
| 1   | 010  |           |     |           |     |           |     | 6.3 × 11  | 24 | Case size<br>φD × L (mm) | ※   |
| 1.2 | 1R2  |           |     |           |     |           |     | 8 × 9     | 28 |                          |     |
| 1.5 | 1R5  |           |     |           |     |           |     | 6.3 × 11  | 29 |                          |     |
|     |      |           |     |           |     |           |     | ▲ 8 × 9   | 30 |                          |     |
| 1.8 | 1R8  |           |     |           |     | 6.3 × 11  | 33  | 8 × 9     | 33 |                          |     |
| 2.2 | 2R2  |           |     | 6.3 × 11  | 36  | 6.3 × 11  | 36  | 8 × 11.5  | 40 |                          |     |
|     |      |           |     |           |     |           |     | ▲ 8 × 9   | 33 |                          |     |
| 2.7 | 2R7  |           |     |           |     |           |     | 8 × 11.5  | 43 |                          |     |
| 3.3 | 3R3  |           |     | 6.3 × 11  | 42  | 6.3 × 11  | 42  | 8 × 11.5  | 47 |                          |     |
|     |      |           |     |           |     |           |     | ▲ 10 × 9  | 48 |                          |     |
| 3.9 | 3R9  |           |     |           |     |           |     | 10 × 12.5 | 57 |                          |     |
| 4.7 | 4R7  |           |     | 6.3 × 11  | 49  | 8 × 9     | 53  | 10 × 12.5 | 61 |                          |     |
| 5.6 | 5R6  | 6.3 × 11  | 52  | 6.3 × 11  | 50  | 8 × 11.5  | 62  | 10 × 12.5 | 64 | 10 × 16                  | 58  |
|     |      |           |     | ▲ 8 × 9   | 56  |           |     |           |    |                          |     |
| 6.8 | 6R8  | 6.3 × 11  | 55  | 8 × 9     | 62  | 8 × 11.5  | 68  | 10 × 16   | 85 | 10 × 16                  | 62  |
| 8.2 | 8R2  |           |     | 8 × 9     | 66  | 10 × 9    | 76  | 10 × 16   | 88 | 10 × 20                  | 88  |
| 10  | 100  | 8 × 9     | 70  | 8 × 11.5  | 80  | 10 × 12.5 | 90  |           |    | 10 × 20                  | 92  |
| 12  | 120  |           |     | 10 × 9    | 88  | 10 × 12.5 | 97  |           |    |                          |     |
| 15  | 150  | 8 × 11.5  | 92  |           |     |           |     |           |    | 12.5 × 20                | 140 |
|     |      | ▲ 10 × 9  | 95  |           |     |           |     |           |    |                          |     |
| 18  | 180  |           |     | 10 × 12.5 | 113 | 10 × 16   | 129 |           |    |                          |     |
| 22  | 220  | 10 × 12.5 | 121 |           |     |           |     |           |    | 12.5 × 25                | 240 |
|     |      |           |     |           |     |           |     |           |    | ▲ 16 × 20                | 292 |
| 27  | 270  |           |     | 10 × 16   | 149 |           |     |           |    | 16 × 20                  | 305 |
| 33  | 330  | 10 × 16   | 158 |           |     |           |     |           |    | 16 × 25                  | 392 |
|     |      |           |     |           |     |           |     |           |    | ▲ 18 × 20                | 312 |
| 47  | 470  |           |     |           |     |           |     |           |    | 18 × 25                  | 480 |
| 68  | 680  |           |     |           |     |           |     |           |    | 18 × 31.5                | 520 |

## • Frequency coefficient of rated ripple current

※ : Rated ripple current (mA<sub>rms</sub>) at 105°C 120Hz

| Cap.(μF)    | Frequency | 120Hz | 1kHz | 10kHz | 100kHz or more |
|-------------|-----------|-------|------|-------|----------------|
| 1 to 5.6μF  |           | 1.00  | 1.60 | 1.80  | 2.00           |
| 6.8 to 18μF |           | 1.00  | 1.50 | 1.70  | 1.90           |
| 22 to 68μF  |           | 1.00  | 1.40 | 1.60  | 1.80           |

▲ : In this case, [6] will be put at 12th digit of type numbering system.