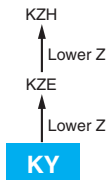


# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

Low impedance, 105°C

## Series

The electrolyte is employed to minimize ESR  
 Ripple current : 4,000 to 10,000 hours at 105°C  
 Instant type  
 Instant

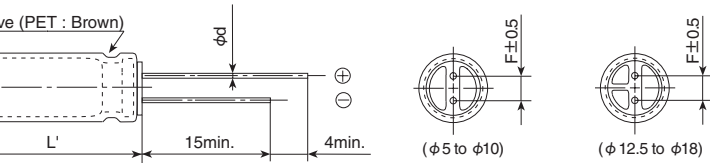


## CONDITIONS

| Characteristics                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------|-----------|------------|--------------|-------------|--------------|------------|---------------|--------------------------|-------------------|------------|----------|------------|--------------|-------------|------|------|------|------|-------------------|---|---|---|---|---|---|---|---|---|
| Temperature range                | -40 to +105°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Rated voltage                    | 6.3 to 100V <sub>dc</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Capacitance tolerance            | ±20% (M) (at 20°C, 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Leakage current                  | l=0.01CV or 3μA, whichever is greater.<br>Where, l : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)                                                                                                                                                                                                                                                                                                                           |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
|                                  | <table border="1"> <tr> <th>Rated voltage (V<sub>dc</sub>)</th> <th>6.3V</th> <th>10V</th> <th>16V</th> <th>25V</th> <th>35V</th> <th>50V</th> <th>63V</th> <th>80V</th> <th>100V</th> </tr> <tr> <td>tan δ (Max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.09</td> <td>0.08</td> </tr> </table>                                                                                                                    | Rated voltage (V <sub>dc</sub> ) | 6.3V                     | 10V       | 16V        | 25V          | 35V         | 50V          | 63V        | 80V           | 100V                     | tan δ (Max.)      | 0.22       | 0.19     | 0.16       | 0.14         | 0.12        | 0.10 | 0.09 | 0.09 | 0.08 |                   |   |   |   |   |   |   |   |   |   |
| Rated voltage (V <sub>dc</sub> ) | 6.3V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10V                              | 16V                      | 25V       | 35V        | 50V          | 63V         | 80V          | 100V       |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| tan δ (Max.)                     | 0.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.19                             | 0.16                     | 0.14      | 0.12       | 0.10         | 0.09        | 0.09         | 0.08       |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
|                                  | When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)                                                                                                                                                                                                                                                                                                                                                                       |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
|                                  | <table border="1"> <tr> <th>Rated voltage (V<sub>dc</sub>)</th> <th>6.3V</th> <th>10V</th> <th>16V</th> <th>25V</th> <th>35V</th> <th>50V</th> <th>63V</th> <th>80V</th> <th>100V</th> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> | Rated voltage (V <sub>dc</sub> ) | 6.3V                     | 10V       | 16V        | 25V          | 35V         | 50V          | 63V        | 80V           | 100V                     | Z(-25°C)/Z(+20°C) | 4          | 3        | 2          | 2            | 2           | 2    | 2    | 2    | 2    | Z(-40°C)/Z(+20°C) | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 3 | 3 |
| Rated voltage (V <sub>dc</sub> ) | 6.3V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10V                              | 16V                      | 25V       | 35V        | 50V          | 63V         | 80V          | 100V       |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Z(-25°C)/Z(+20°C)                | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                                | 2                        | 2         | 2          | 2            | 2           | 2            | 2          |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Z(-40°C)/Z(+20°C)                | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6                                | 4                        | 3         | 3          | 3            | 3           | 3            | 3          |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
|                                  | (at 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Life                             | The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for the specified period of time at 105°C.                                                                                                                                                                                                                        |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Time                             | <table border="1"> <tr> <th>Rated voltage</th> <th>6.3 to 10V<sub>dc</sub></th> <th>φ 5 &amp; 6.3</th> <th>4,000hours</th> <th>φ 8 &amp; 10</th> <th>6,000hours</th> <th>φ 12.5 to 18</th> <th>8,000hours</th> </tr> <tr> <th>Rated voltage</th> <th>16 to 100V<sub>dc</sub></th> <th>φ 5 &amp; 6.3</th> <th>5,000hours</th> <th>φ 8 &amp; 10</th> <th>7,000hours</th> <th>φ 12.5 to 18</th> <th>10,000hours</th> </tr> </table>                                                        | Rated voltage                    | 6.3 to 10V <sub>dc</sub> | φ 5 & 6.3 | 4,000hours | φ 8 & 10     | 6,000hours  | φ 12.5 to 18 | 8,000hours | Rated voltage | 16 to 100V <sub>dc</sub> | φ 5 & 6.3         | 5,000hours | φ 8 & 10 | 7,000hours | φ 12.5 to 18 | 10,000hours |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Rated voltage                    | 6.3 to 10V <sub>dc</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                | φ 5 & 6.3                        | 4,000hours               | φ 8 & 10  | 6,000hours | φ 12.5 to 18 | 8,000hours  |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Rated voltage                    | 16 to 100V <sub>dc</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                | φ 5 & 6.3                        | 5,000hours               | φ 8 & 10  | 7,000hours | φ 12.5 to 18 | 10,000hours |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Capacitance change               | ≤ ±25% of the initial value                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| D.F. (tan δ)                     | ≤200% of the initial specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Leakage current                  | ≤The initial specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Life                             | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.                                                                                                                                                                                                   |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Capacitance change               | ≤ ±25% of the initial value                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| D.F. (tan δ)                     | ≤200% of the initial specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |
| Leakage current                  | ≤The initial specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |                          |           |            |              |             |              |            |               |                          |                   |            |          |            |              |             |      |      |      |      |                   |   |   |   |   |   |   |   |   |   |

## Dimensions [mm]

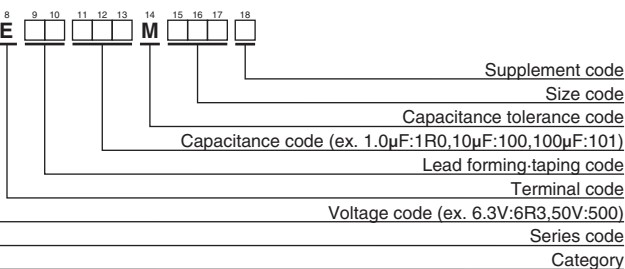
Lead length: E



Gas escape end seal

| φD  | 5          | 6.3 | 8   | 10  | 12.5 | 16  | 18  |
|-----|------------|-----|-----|-----|------|-----|-----|
| φd  | 0.5        | 0.5 | 0.6 | 0.6 | 0.6  | 0.8 | 0.8 |
| F   | 2.0        | 2.5 | 3.5 | 5.0 | 5.0  | 7.5 | 7.5 |
| φD' | φD+0.5max. |     |     |     |      |     |     |
| L'  | L+1.5max.  |     |     |     |      |     |     |

## MARKING SYSTEM



Product code guide (radial lead type)"

# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

Low impedance, 105°C

## DC RATINGS

| Case size<br>L(mm) | Impedance<br>( $\Omega$ max./100kHz) |       | Rated<br>ripple<br>current<br>(mA rms/<br>105°C,<br>100kHz) | Part No.           | WV<br>(V <sub>dc</sub> ) | Cap<br>( $\mu$ F) | Case size<br>$\phi$ D×L(mm) | Impedance<br>( $\Omega$ max./100kHz) |       | Rated<br>ripple<br>current<br>(mA rms/<br>105°C,<br>100kHz) | Part No.           |
|--------------------|--------------------------------------|-------|-------------------------------------------------------------|--------------------|--------------------------|-------------------|-----------------------------|--------------------------------------|-------|-------------------------------------------------------------|--------------------|
|                    | 20°C                                 | -10°C |                                                             |                    |                          |                   |                             | 20°C                                 | -10°C |                                                             |                    |
| ×11                | 0.58                                 | 2.3   | 210                                                         | EKY-6R3E□□151ME11D | 16                       | 1,500             | 12.5×20                     | 0.035                                | 0.12  | 1,900                                                       | EKY-160E□□152MK20S |
| ×11                | 0.22                                 | 0.87  | 340                                                         | EKY-6R3E□□331MF11D |                          | 1,500             | 16×15                       | 0.042                                | 0.12  | 1,940                                                       | EKY-160E□□152ML15S |
| ×11.5              | 0.13                                 | 0.52  | 640                                                         | EKY-6R3E□□681MHB5D |                          | 2,200             | 12.5×25                     | 0.027                                | 0.089 | 2,230                                                       | EKY-160E□□222MK25S |
| ×12.5              | 0.080                                | 0.32  | 865                                                         | EKY-6R3E□□821MJC5S |                          | 2,200             | 18×15                       | 0.043                                | 0.11  | 2,210                                                       | EKY-160E□□222MM15S |
| ×15                | 0.087                                | 0.35  | 840                                                         | EKY-6R3E□□102MH15D |                          | 2,700             | 12.5×30                     | 0.024                                | 0.078 | 2,650                                                       | EKY-160E□□272MK30S |
| ×20                | 0.069                                | 0.27  | 1,050                                                       | EKY-6R3E□□122MH20D |                          | 2,700             | 16×20                       | 0.027                                | 0.078 | 2,530                                                       | EKY-160E□□272ML20S |
| ×16                | 0.060                                | 0.24  | 1,210                                                       | EKY-6R3E□□122MJ16S |                          | 3,300             | 12.5×35                     | 0.020                                | 0.065 | 2,880                                                       | EKY-160E□□332MK35S |
| ×20                | 0.046                                | 0.18  | 1,400                                                       | EKY-6R3E□□152MJ20S |                          | 3,900             | 12.5×40                     | 0.017                                | 0.056 | 3,350                                                       | EKY-160E□□392MK40S |
| ×15                | 0.049                                | 0.16  | 1,450                                                       | EKY-6R3E□□182MK15S |                          | 3,900             | 16×25                       | 0.021                                | 0.060 | 2,930                                                       | EKY-160E□□392ML25S |
| ×25                | 0.042                                | 0.17  | 1,650                                                       | EKY-6R3E□□222MJ25S |                          | 3,900             | 18×20                       | 0.026                                | 0.067 | 2,860                                                       | EKY-160E□□392MM20S |
| ×30                | 0.031                                | 0.12  | 1,910                                                       | EKY-6R3E□□272MJ30S |                          | 4,700             | 16×31.5                     | 0.017                                | 0.050 | 3,450                                                       | EKY-160E□□472MLN3S |
| ×15                | 0.042                                | 0.12  | 1,940                                                       | EKY-6R3E□□272ML15S |                          | 4,700             | 18×25                       | 0.019                                | 0.049 | 3,140                                                       | EKY-160E□□472MM25S |
| ×20                | 0.035                                | 0.12  | 1,900                                                       | EKY-6R3E□□332MK20S |                          | 5,600             | 16×35.5                     | 0.015                                | 0.044 | 3,610                                                       | EKY-160E□□562MLP1S |
| ×25                | 0.027                                | 0.089 | 2,230                                                       | EKY-6R3E□□392MK25S |                          | 5,600             | 18×31.5                     | 0.015                                | 0.040 | 4,170                                                       | EKY-160E□□562MMN3S |
| ×15                | 0.043                                | 0.11  | 2,210                                                       | EKY-6R3E□□392MM15S |                          | 6,800             | 16×40                       | 0.013                                | 0.038 | 4,080                                                       | EKY-160E□□682ML40S |
| ×30                | 0.024                                | 0.078 | 2,650                                                       | EKY-6R3E□□472MK30S |                          | 8,200             | 18×35.5                     | 0.014                                | 0.038 | 4,220                                                       | EKY-160E□□822MMP1S |
| ×35                | 0.020                                | 0.065 | 2,880                                                       | EKY-6R3E□□562MK35S |                          | 10,000            | 18×40                       | 0.012                                | 0.032 | 4,280                                                       | EKY-160E□□103MM40S |
| ×20                | 0.027                                | 0.078 | 2,530                                                       | EKY-6R3E□□562ML20S |                          | 47                | 5×11                        | 0.58                                 | 2.3   | 210                                                         | EKY-250E□□470ME11D |
| ×40                | 0.017                                | 0.056 | 3,350                                                       | EKY-6R3E□□682MK40S |                          | 100               | 6.3×11                      | 0.22                                 | 0.87  | 340                                                         | EKY-250E□□101MF11D |
| ×25                | 0.021                                | 0.060 | 2,930                                                       | EKY-6R3E□□682ML25S |                          | 220               | 8×11.5                      | 0.13                                 | 0.52  | 640                                                         | EKY-250E□□221MHB5D |
| ×20                | 0.026                                | 0.067 | 2,860                                                       | EKY-6R3E□□682MM20S |                          | 330               | 8×15                        | 0.087                                | 0.35  | 840                                                         | EKY-250E□□331MH15D |
| ×31.5              | 0.017                                | 0.050 | 3,450                                                       | EKY-6R3E□□822MLN3S |                          | 330               | 10×12.5                     | 0.080                                | 0.32  | 865                                                         | EKY-250E□□331MJC5S |
| ×35.5              | 0.015                                | 0.044 | 3,610                                                       | EKY-6R3E□□103MLP1S | 470                      | 8×20              | 0.069                       | 0.27                                 | 1,050 | EKY-250E□□471MH20D                                          |                    |
| ×25                | 0.019                                | 0.049 | 3,140                                                       | EKY-6R3E□□103MM25S | 470                      | 10×16             | 0.060                       | 0.24                                 | 1,210 | EKY-250E□□471MJ16S                                          |                    |
| ×40                | 0.013                                | 0.038 | 4,080                                                       | EKY-6R3E□□123ML40S | 680                      | 10×20             | 0.046                       | 0.18                                 | 1,400 | EKY-250E□□681MJ20S                                          |                    |
| ×31.5              | 0.015                                | 0.040 | 4,170                                                       | EKY-6R3E□□123MMN3S | 680                      | 12.5×15           | 0.049                       | 0.16                                 | 1,450 | EKY-250E□□681MK15S                                          |                    |
| ×35.5              | 0.014                                | 0.038 | 4,220                                                       | EKY-6R3E□□153MMP1S | 820                      | 10×25             | 0.042                       | 0.17                                 | 1,650 | EKY-250E□□821MJ25S                                          |                    |
| ×40                | 0.012                                | 0.032 | 4,280                                                       | EKY-6R3E□□183MM40S | 1,000                    | 10×30             | 0.031                       | 0.12                                 | 1,910 | EKY-250E□□102MJ30S                                          |                    |
| ×11                | 0.58                                 | 2.3   | 210                                                         | EKY-100E□□101ME11D | 1,000                    | 12.5×20           | 0.035                       | 0.12                                 | 1,900 | EKY-250E□□102MK20S                                          |                    |
| ×11                | 0.22                                 | 0.87  | 340                                                         | EKY-100E□□221MF11D | 1,000                    | 16×15             | 0.042                       | 0.12                                 | 1,940 | EKY-250E□□102ML15S                                          |                    |
| ×11.5              | 0.13                                 | 0.52  | 640                                                         | EKY-100E□□471MHB5D | 1,200                    | 18×15             | 0.043                       | 0.11                                 | 2,210 | EKY-250E□□122MM15S                                          |                    |
| ×15                | 0.087                                | 0.35  | 840                                                         | EKY-100E□□681MH15D | 1,500                    | 12.5×25           | 0.027                       | 0.089                                | 2,230 | EKY-250E□□152MK25S                                          |                    |
| ×12.5              | 0.080                                | 0.32  | 865                                                         | EKY-100E□□681MJC5S | 1,800                    | 12.5×30           | 0.024                       | 0.078                                | 2,650 | EKY-250E□□182MK30S                                          |                    |
| ×20                | 0.069                                | 0.27  | 1,050                                                       | EKY-100E□□102MH20D | 1,800                    | 16×20             | 0.027                       | 0.078                                | 2,530 | EKY-250E□□182ML20S                                          |                    |
| ×16                | 0.060                                | 0.24  | 1,210                                                       | EKY-100E□□102MJ16S | 2,200                    | 12.5×35           | 0.020                       | 0.065                                | 2,880 | EKY-250E□□222MK35S                                          |                    |
| ×20                | 0.046                                | 0.18  | 1,400                                                       | EKY-100E□□122MJ20S | 2,200                    | 18×20             | 0.026                       | 0.067                                | 2,860 | EKY-250E□□222MM20S                                          |                    |
| ×25                | 0.042                                | 0.17  | 1,650                                                       | EKY-100E□□152MJ25S | 2,700                    | 12.5×40           | 0.017                       | 0.056                                | 3,350 | EKY-250E□□272MK40S                                          |                    |
| ×15                | 0.049                                | 0.16  | 1,450                                                       | EKY-100E□□152MK15S | 2,700                    | 16×25             | 0.021                       | 0.060                                | 2,930 | EKY-250E□□272ML25S                                          |                    |
| ×30                | 0.031                                | 0.12  | 1,910                                                       | EKY-100E□□222MJ30S | 3,300                    | 16×31.5           | 0.017                       | 0.050                                | 3,450 | EKY-250E□□332MLN3S                                          |                    |
| ×20                | 0.035                                | 0.12  | 1,900                                                       | EKY-100E□□222MK20S | 3,300                    | 18×25             | 0.019                       | 0.049                                | 3,140 | EKY-250E□□332MM25S                                          |                    |
| ×15                | 0.042                                | 0.12  | 1,940                                                       | EKY-100E□□222ML15S | 3,900                    | 16×35.5           | 0.015                       | 0.044                                | 3,610 | EKY-250E□□392MLP1S                                          |                    |
| ×15                | 0.043                                | 0.11  | 2,210                                                       | EKY-100E□□272MM15S | 3,900                    | 18×31.5           | 0.015                       | 0.040                                | 4,170 | EKY-250E□□392MMN3S                                          |                    |
| ×25                | 0.027                                | 0.089 | 2,230                                                       | EKY-100E□□332MK25S | 4,700                    | 16×40             | 0.013                       | 0.038                                | 4,080 | EKY-250E□□472ML40S                                          |                    |
| ×30                | 0.024                                | 0.078 | 2,650                                                       | EKY-100E□□392MK30S | 4,700                    | 18×35.5           | 0.014                       | 0.038                                | 4,220 | EKY-250E□□472MMP1S                                          |                    |
| ×20                | 0.027                                | 0.078 | 2,530                                                       | EKY-100E□□392ML20S | 5,600                    | 18×40             | 0.012                       | 0.032                                | 4,280 | EKY-250E□□562MM40S                                          |                    |
| ×35                | 0.020                                | 0.065 | 2,880                                                       | EKY-100E□□472MK35S | 33                       | 5×11              | 0.58                        | 2.3                                  | 210   | EKY-350E□□330ME11D                                          |                    |
| ×40                | 0.017                                | 0.056 | 3,350                                                       | EKY-100E□□562MK40S | 56                       | 6.3×11            | 0.22                        | 0.87                                 | 340   | EKY-350E□□560MF11D                                          |                    |
| ×25                | 0.021                                | 0.060 | 2,930                                                       | EKY-100E□□562ML25S | 150                      | 8×11.5            | 0.13                        | 0.52                                 | 640   | EKY-350E□□151MHB5D                                          |                    |
| ×20                | 0.026                                | 0.067 | 2,860                                                       | EKY-100E□□562MM20S | 220                      | 8×15              | 0.087                       | 0.35                                 | 840   | EKY-350E□□221MH15D                                          |                    |
| ×31.5              | 0.017                                | 0.050 | 3,450                                                       | EKY-100E□□682MLN3S | 220                      | 10×12.5           | 0.080                       | 0.32                                 | 865   | EKY-350E□□221MJC5S                                          |                    |
| ×25                | 0.019                                | 0.049 | 3,140                                                       | EKY-100E□□682MM25S | 270                      | 8×20              | 0.069                       | 0.27                                 | 1,050 | EKY-350E□□271MH20D                                          |                    |
| ×35.5              | 0.015                                | 0.044 | 3,610                                                       | EKY-100E□□822MLP1S | 330                      | 10×16             | 0.060                       | 0.24                                 | 1,210 | EKY-350E□□331MJ16S                                          |                    |
| ×31.5              | 0.015                                | 0.040 | 4,170                                                       | EKY-100E□□822MMN3S | 470                      | 10×20             | 0.046                       | 0.18                                 | 1,400 | EKY-350E□□471MJ20S                                          |                    |
| ×40                | 0.013                                | 0.038 | 4,080                                                       | EKY-100E□□103ML40S | 470                      | 12.5×15           | 0.049                       | 0.16                                 | 1,450 | EKY-350E□□471MK15S                                          |                    |
| ×35.5              | 0.014                                | 0.038 | 4,220                                                       | EKY-100E□□103MMP1S | 560                      | 10×25             | 0.042                       | 0.17                                 | 1,650 | EKY-350E□□561MJ25S                                          |                    |
| ×40                | 0.012                                | 0.032 | 4,280                                                       | EKY-100E□□123MM40S | 680                      | 10×30             | 0.031                       | 0.12                                 | 1,910 | EKY-350E□□681MJ30S                                          |                    |
| ×11                | 0.58                                 | 2.3   | 210                                                         | EKY-160E□□560ME11D | 680                      | 12.5×20           | 0.035                       | 0.12                                 | 1,900 | EKY-350E□□681MK20S                                          |                    |
| ×11                | 0.22                                 | 0.87  | 340                                                         | EKY-160E□□121MF11D | 680                      | 16×15             | 0.042                       | 0.12                                 | 1,940 | EKY-350E□□681ML15S                                          |                    |
| ×11.5              | 0.13                                 | 0.52  | 640                                                         | EKY-160E□□331MHB5D | 1,000                    | 12.5×25           | 0.027                       | 0.089                                | 2,230 | EKY-350E□□102MK25S                                          |                    |
| ×15                | 0.087                                | 0.35  | 840                                                         | EKY-160E□□471MH15D | 1,000                    | 18×15             | 0.043                       | 0.11                                 | 2,210 | EKY-350E□□102MM15S                                          |                    |
| ×12.5              | 0.080                                | 0.32  | 865                                                         | EKY-160E□□471MJC5S | 1,200                    | 12.5×30           | 0.024                       | 0.078                                | 2,650 | EKY-350E□□122MK30S                                          |                    |
| ×20                | 0.069                                | 0.27  | 1,050                                                       | EKY-160E□□681MH20D | 1,200                    | 16×20             | 0.027                       | 0.078                                | 2,530 | EKY-350E□□122ML20S                                          |                    |
| ×16                | 0.060                                | 0.24  | 1,210                                                       | EKY-160E□□681MJ16S | 1,500                    | 12.5×35           | 0.020                       | 0.065                                | 2,880 | EKY-350E□□152MK35S                                          |                    |

# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

Low impedance, 105°C

## DC RATINGS

| Case size<br>W×L×H (mm) | Impedance<br>(Ω max./100kHz) |       | Rated ripple current<br>(mA rms/105°C, 100kHz) | Part No.           | WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Case size<br>φD×L (mm) | Impedance<br>(Ω max./100kHz) |       | Rated ripple current<br>(mA rms/105°C, 100kHz) | Part No.           |                    |
|-------------------------|------------------------------|-------|------------------------------------------------|--------------------|--------------------------|-------------|------------------------|------------------------------|-------|------------------------------------------------|--------------------|--------------------|
|                         | 20°C                         | -10°C |                                                |                    |                          |             |                        | 20°C                         | -10°C |                                                |                    |                    |
| ×25                     | 0.019                        | 0.049 | 3,140                                          | EKY-350E□□222MM25S | 63                       | 680         | 16×25                  | 0.025                        | 0.075 | 2,600                                          | EKY-630E□□681ML25S |                    |
| ×35.5                   | 0.015                        | 0.044 | 3,610                                          | EKY-350E□□272MLP1S |                          | 680         | 18×20                  | 0.030                        | 0.090 | 2,500                                          | EKY-630E□□681MM20S |                    |
| ×31.5                   | 0.015                        | 0.040 | 4,170                                          | EKY-350E□□272MMN3S |                          | 820         | 16×31.5                | 0.021                        | 0.063 | 2,850                                          | EKY-630E□□821MLN3S |                    |
| ×40                     | 0.013                        | 0.038 | 4,080                                          | EKY-350E□□332ML40S |                          | 820         | 18×25                  | 0.024                        | 0.072 | 2,800                                          | EKY-630E□□821MM25S |                    |
| ×35.5                   | 0.014                        | 0.038 | 4,220                                          | EKY-350E□□332MMP1S |                          | 1,000       | 16×35.5                | 0.019                        | 0.057 | 2,900                                          | EKY-630E□□102MLP1S |                    |
| ×40                     | 0.012                        | 0.032 | 4,280                                          | EKY-350E□□392MM40S |                          | 1,200       | 16×40                  | 0.018                        | 0.054 | 3,400                                          | EKY-630E□□122ML40S |                    |
| ×11                     | 4.0                          | 16.0  | 30                                             | EKY-500E□□1R0ME11D |                          | 1,200       | 18×31.5                | 0.020                        | 0.060 | 3,300                                          | EKY-630E□□122MMN3S |                    |
| ×11                     | 2.5                          | 10.0  | 43                                             | EKY-500E□□2R2ME11D |                          | 1,500       | 18×35.5                | 0.018                        | 0.054 | 3,400                                          | EKY-630E□□152MMP1S |                    |
| ×11                     | 2.2                          | 8.8   | 53                                             | EKY-500E□□3R3ME11D |                          | 1,800       | 18×40                  | 0.017                        | 0.051 | 3,500                                          | EKY-630E□□182MM40S |                    |
| ×11                     | 1.9                          | 7.6   | 88                                             | EKY-500E□□4R7ME11D |                          | 80          | 68                     | 10×12.5                      | 0.17  | 0.66                                           | 480                | EKY-800E□□680MJC5S |
| ×11                     | 1.5                          | 6.0   | 100                                            | EKY-500E□□100ME11D |                          |             | 100                    | 10×16                        | 0.11  | 0.47                                           | 600                | EKY-800E□□101MJ16S |
| ×11                     | 0.70                         | 2.8   | 180                                            | EKY-500E□□220ME11D |                          |             | 120                    | 10×20                        | 0.084 | 0.34                                           | 800                | EKY-800E□□121MJ20S |
| ×11                     | 0.30                         | 1.2   | 295                                            | EKY-500E□□560MF11D |                          |             | 150                    | 10×25                        | 0.069 | 0.28                                           | 900                | EKY-800E□□151MJ25S |
| ×11.5                   | 0.17                         | 0.68  | 555                                            | EKY-500E□□101MHB5D |                          |             | 150                    | 12.5×16                      | 0.11  | 0.34                                           | 750                | EKY-800E□□151MK16S |
| ×15                     | 0.12                         | 0.48  | 730                                            | EKY-500E□□121MH15D | 220                      |             | 12.5×20                | 0.062                        | 0.18  | 1,100                                          | EKY-800E□□221MK20S |                    |
| ×12.5                   | 0.12                         | 0.48  | 760                                            | EKY-500E□□151MJC5S | 330                      |             | 12.5×25                | 0.047                        | 0.14  | 1,250                                          | EKY-800E□□331MK25S |                    |
| ×20                     | 0.091                        | 0.36  | 910                                            | EKY-500E□□181MH20D | 330                      |             | 16×20                  | 0.048                        | 0.15  | 1,350                                          | EKY-800E□□331ML20S |                    |
| ×16                     | 0.084                        | 0.34  | 1,050                                          | EKY-500E□□221MJ16S | 390                      |             | 12.5×30                | 0.042                        | 0.13  | 1,500                                          | EKY-800E□□391MK30S |                    |
| ×20                     | 0.060                        | 0.24  | 1,220                                          | EKY-500E□□271MJ20S | 470                      |             | 12.5×35                | 0.036                        | 0.11  | 1,650                                          | EKY-800E□□471MK35S |                    |
| ×15                     | 0.061                        | 0.20  | 1,260                                          | EKY-500E□□271MK15S | 470                      |             | 16×25                  | 0.038                        | 0.12  | 1,700                                          | EKY-800E□□471ML25S |                    |
| ×25                     | 0.055                        | 0.22  | 1,440                                          | EKY-500E□□331MJ25S | 470                      |             | 18×20                  | 0.045                        | 0.14  | 1,500                                          | EKY-800E□□471MM20S |                    |
| ×30                     | 0.043                        | 0.17  | 1,690                                          | EKY-500E□□471MJ30S | 560                      |             | 12.5×40                | 0.032                        | 0.095 | 1,800                                          | EKY-800E□□561MK40S |                    |
| ×20                     | 0.045                        | 0.15  | 1,660                                          | EKY-500E□□471MK20S | 680                      |             | 16×31.5                | 0.032                        | 0.095 | 1,850                                          | EKY-800E□□681MLN3S |                    |
| ×15                     | 0.055                        | 0.17  | 1,690                                          | EKY-500E□□471ML15S | 680                      | 18×25       | 0.036                  | 0.11                         | 1,750 | EKY-800E□□681MM25S                             |                    |                    |
| ×25                     | 0.034                        | 0.11  | 1,950                                          | EKY-500E□□561MK25S | 820                      | 16×35.5     | 0.029                  | 0.086                        | 2,000 | EKY-800E□□821MLP1S                             |                    |                    |
| ×15                     | 0.054                        | 0.15  | 1,930                                          | EKY-500E□□561MM15S | 820                      | 18×31.5     | 0.030                  | 0.090                        | 1,900 | EKY-800E□□821MMN3S                             |                    |                    |
| ×30                     | 0.030                        | 0.10  | 2,310                                          | EKY-500E□□681MK30S | 1,000                    | 16×40       | 0.027                  | 0.081                        | 2,200 | EKY-800E□□102ML40S                             |                    |                    |
| ×35                     | 0.025                        | 0.083 | 2,510                                          | EKY-500E□□821MK35S | 1,000                    | 18×35.5     | 0.027                  | 0.081                        | 2,200 | EKY-800E□□102MMP1S                             |                    |                    |
| ×20                     | 0.034                        | 0.10  | 2,210                                          | EKY-500E□□821ML20S | 1,200                    | 18×40       | 0.026                  | 0.077                        | 2,700 | EKY-800E□□122MM40S                             |                    |                    |
| ×40                     | 0.021                        | 0.069 | 2,920                                          | EKY-500E□□102MK40S | 100                      | 6.8         | 5×11                   | 1.4                          | 5.6   | 125                                            | EKY-101E□□6R8ME11D |                    |
| ×25                     | 0.025                        | 0.075 | 2,555                                          | EKY-500E□□102ML25S |                          | 15          | 6.3×11                 | 0.57                         | 2.3   | 205                                            | EKY-101E□□150MF11D |                    |
| ×20                     | 0.036                        | 0.097 | 2,490                                          | EKY-500E□□102MM20S |                          | 27          | 8×11.5                 | 0.36                         | 1.4   | 355                                            | EKY-101E□□270MHB5D |                    |
| ×31.5                   | 0.022                        | 0.066 | 3,010                                          | EKY-500E□□122MLN3S |                          | 39          | 8×15                   | 0.25                         | 1.0   | 450                                            | EKY-101E□□390MH15D |                    |
| ×25                     | 0.026                        | 0.070 | 2,740                                          | EKY-500E□□122MM25S |                          | 47          | 10×12.5                | 0.17                         | 0.66  | 480                                            | EKY-101E□□470MJC5S |                    |
| ×35.5                   | 0.019                        | 0.057 | 3,150                                          | EKY-500E□□152MLP1S |                          | 56          | 8×20                   | 0.19                         | 0.76  | 565                                            | EKY-101E□□560MH20D |                    |
| ×40                     | 0.016                        | 0.048 | 3,710                                          | EKY-500E□□182ML40S |                          | 68          | 10×16                  | 0.11                         | 0.47  | 600                                            | EKY-101E□□680MJ16S |                    |
| ×31.5                   | 0.021                        | 0.057 | 3,635                                          | EKY-500E□□182MMN3S |                          | 82          | 10×20                  | 0.084                        | 0.34  | 800                                            | EKY-101E□□820MJ20S |                    |
| ×35.5                   | 0.017                        | 0.046 | 3,680                                          | EKY-500E□□222MMP1S |                          | 100         | 12.5×16                | 0.11                         | 0.34  | 750                                            | EKY-101E□□101MK16S |                    |
| ×40                     | 0.014                        | 0.038 | 3,800                                          | EKY-500E□□272MM40S |                          | 120         | 10×25                  | 0.069                        | 0.28  | 900                                            | EKY-101E□□121MJ25S |                    |
| ×11                     | 0.88                         | 3.5   | 165                                            | EKY-630E□□150ME11D |                          | 150         | 12.5×20                | 0.062                        | 0.18  | 1,100                                          | EKY-101E□□151MK20S |                    |
| ×11                     | 0.35                         | 1.4   | 265                                            | EKY-630E□□330MF11D |                          | 220         | 12.5×25                | 0.047                        | 0.14  | 1,250                                          | EKY-101E□□221MK25S |                    |
| ×11.5                   | 0.22                         | 0.88  | 500                                            | EKY-630E□□560MHB5D |                          | 220         | 16×20                  | 0.048                        | 0.15  | 1,350                                          | EKY-101E□□221ML20S |                    |
| ×15                     | 0.16                         | 0.64  | 665                                            | EKY-630E□□820MH15D |                          | 270         | 12.5×30                | 0.042                        | 0.13  | 1,500                                          | EKY-101E□□271MK30S |                    |
| ×12.5                   | 0.11                         | 0.44  | 690                                            | EKY-630E□□820MJC5S | 330                      | 12.5×35     | 0.036                  | 0.11                         | 1,650 | EKY-101E□□331MK35S                             |                    |                    |
| ×20                     | 0.12                         | 0.48  | 820                                            | EKY-630E□□121MH20D | 330                      | 16×25       | 0.038                  | 0.12                         | 1,700 | EKY-101E□□331ML25S                             |                    |                    |
| ×16                     | 0.076                        | 0.31  | 950                                            | EKY-630E□□121MJ16S | 330                      | 18×20       | 0.045                  | 0.14                         | 1,500 | EKY-101E□□331MM20S                             |                    |                    |
| ×20                     | 0.056                        | 0.23  | 1,150                                          | EKY-630E□□181MJ20S | 390                      | 12.5×40     | 0.032                  | 0.095                        | 1,800 | EKY-101E□□391MK40S                             |                    |                    |
| ×16                     | 0.072                        | 0.29  | 1,150                                          | EKY-630E□□181MK16S | 470                      | 16×31.5     | 0.032                  | 0.095                        | 1,850 | EKY-101E□□471MLN3S                             |                    |                    |
| ×25                     | 0.046                        | 0.19  | 1,350                                          | EKY-630E□□221MJ25S | 470                      | 18×25       | 0.036                  | 0.11                         | 1,750 | EKY-101E□□471MM25S                             |                    |                    |
| ×20                     | 0.041                        | 0.13  | 1,500                                          | EKY-630E□□271MK20S | 560                      | 16×35.5     | 0.029                  | 0.086                        | 2,000 | EKY-101E□□561MLP1S                             |                    |                    |
| ×25                     | 0.031                        | 0.093 | 1,900                                          | EKY-630E□□391MK25S | 560                      | 18×31.5     | 0.030                  | 0.090                        | 1,900 | EKY-101E□□561MMN3S                             |                    |                    |
| ×30                     | 0.028                        | 0.084 | 2,300                                          | EKY-630E□□471MK30S | 680                      | 16×40       | 0.027                  | 0.081                        | 2,200 | EKY-101E□□681ML40S                             |                    |                    |
| ×20                     | 0.032                        | 0.096 | 2,000                                          | EKY-630E□□471ML20S | 680                      | 18×35.5     | 0.027                  | 0.081                        | 2,200 | EKY-101E□□681MMP1S                             |                    |                    |
| ×35                     | 0.024                        | 0.072 | 2,500                                          | EKY-630E□□561MK35S | 820                      | 18×40       | 0.026                  | 0.077                        | 2,700 | EKY-101E□□821MM40S                             |                    |                    |
| ×40                     | 0.021                        | 0.063 | 2,800                                          | EKY-630E□□681MK40S |                          |             |                        |                              |       |                                                |                    |                    |

Appropriate lead forming or taping code.

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