

### Surface Mount Type

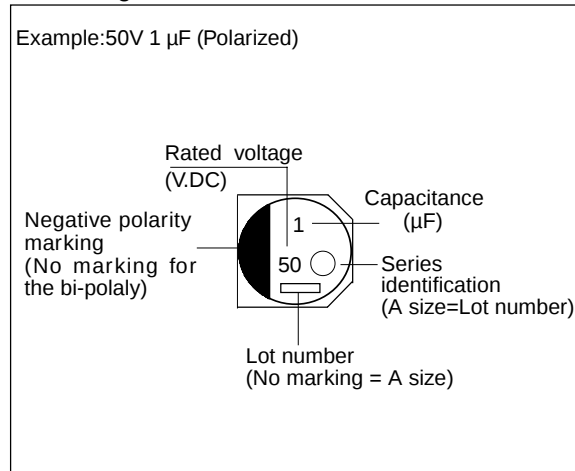
Series: S Type : V

■ Features Endurance : 85°C 2000 h  
5.5 mm (≤φ6.3) height

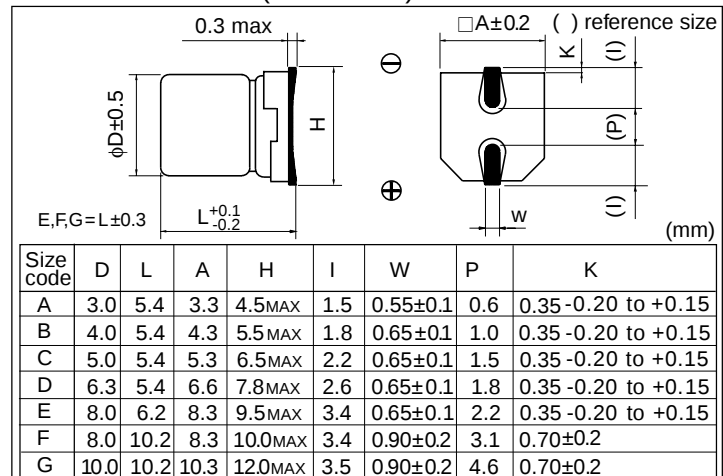
#### ■ Specifications

|                                    |                                                                                                                                                                                        |    |                                |    |                                               |    |                    |    |                                  |     |                             |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------|----|-----------------------------------------------|----|--------------------|----|----------------------------------|-----|-----------------------------|
| Category temp. range               | -40 to +85°C                                                                                                                                                                           |    |                                |    |                                               |    |                    |    |                                  |     |                             |
| Rated W.V. Range                   | 4 to 100 V .DC                                                                                                                                                                         |    |                                |    |                                               |    |                    |    |                                  |     |                             |
| Nominal Cap. Range                 | 0.1 to 1500 μ F                                                                                                                                                                        |    |                                |    |                                               |    |                    |    |                                  |     |                             |
| Capacitance Tolerance              | ±20 % (120Hz/+20°C)                                                                                                                                                                    |    |                                |    |                                               |    |                    |    |                                  |     |                             |
| DC Leakage Current                 | I ≤ 0.01 CV or 3(μ A) after 2 minutes (Bi-Polar I≤0.02 CV or 6 (μA) ) (Whichever, greater)                                                                                             |    |                                |    |                                               |    |                    |    |                                  |     |                             |
| Dissipation Factor                 | Please see the attached standard products list                                                                                                                                         |    |                                |    |                                               |    |                    |    |                                  |     |                             |
| Characteristics at Low Temperature | W.V. (V)                                                                                                                                                                               | 4  | 6.3                            | 10 | 16                                            | 25 | 35                 | 50 | 63                               | 100 | (Impedance ratio at 120 Hz) |
|                                    | -25 / +20 °C                                                                                                                                                                           | 7  | 4                              | 3  | 2                                             | 2  | 2                  | 2  | 3                                | 3   |                             |
|                                    | -40 / +20 °C                                                                                                                                                                           | 15 | 8                              | 6  | 4                                             | 4  | 3                  | 3  | 4                                | 4   |                             |
| Endurance                          | After applying rated working voltage for 2000 hours at +85±2°C and then being stabilized at +20°C, capacitors shall meet the following limits.                                         |    |                                |    |                                               |    |                    |    |                                  |     |                             |
|                                    | Capacitance change : ±20% of initial measured value                                                                                                                                    |    |                                |    |                                               |    | D.F.               |    | ≤200% of initial specified value |     |                             |
|                                    | Size code                                                                                                                                                                              |    | Rated W.V.                     |    | Cap. change                                   |    | DC leakage current |    | ≤initial specified value         |     |                             |
|                                    | A(φ3)                                                                                                                                                                                  |    | 4 ~ 50W.V.                     |    | ±30%<br>initial measured value for 1000 hours |    |                    |    |                                  |     |                             |
|                                    | A(φ3) ~ D(φ6.3)                                                                                                                                                                        |    | 4 W.V.                         |    |                                               |    |                    |    |                                  |     |                             |
|                                    | ≤ D(φ6.3)Minature                                                                                                                                                                      |    | 6.3 W.V.                       |    |                                               |    |                    |    |                                  |     |                             |
| ≥10 W.V.                           |                                                                                                                                                                                        |    | ±20%                           |    |                                               |    |                    |    |                                  |     |                             |
| Shelf Life                         | After storage for 1000 hours at +85±2°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet the limits specified in “Endurance”.(With voltage treatment) |    |                                |    |                                               |    |                    |    |                                  |     |                             |
|                                    | After reflow soldering ( Refer to page 20 for recommendable temperature profile.) and then being stabilized at +20°C, capacitor shall meet the following limits.                       |    |                                |    |                                               |    |                    |    |                                  |     |                             |
| Resistance to Soldering Heat       | Capacitance change                                                                                                                                                                     |    | ±10% of initial measured value |    |                                               |    |                    |    |                                  |     |                             |
|                                    | D.F.                                                                                                                                                                                   |    | ≤ initial specified value      |    |                                               |    |                    |    |                                  |     |                             |
|                                    | DC leakage current                                                                                                                                                                     |    | ≤ initial specified value      |    |                                               |    |                    |    |                                  |     |                             |

#### ■ Marking



#### ■ Dimensions in mm (not to scale)



#### ■ Case size

| W.V.(V)  | 4 (0G)     | 6.3 (0J)   | 10 (1A)    | 16 (1C)    | 25 (1E)    | 35 (1V)    | 50 (1H)    | 63 (1J)    | 100 (2A)   |
|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Cap.(μF) | Polar-ized | Polar-ized | Bi - polar | Polar-ized | Bi - polar | Polar-ized | Bi - polar | Polar-ized | Polar-ized |
| 0.1      |            |            |            |            |            |            | A, B       |            |            |
| 0.22     |            |            |            |            |            |            | A, B       | B          |            |
| 0.33     |            |            |            |            |            |            | A, B       | B          |            |
| 0.47     |            |            |            |            |            |            | A, B       | B          |            |
| 1.0      |            |            |            |            |            |            | A, B       | B          |            |
| 2.2      |            |            |            |            |            | A          | B          | C          |            |
| 3.3      |            |            |            |            | B          | A          | B          | C          | E          |
| 4.7      |            |            |            |            | B          | A, B       | C          | C(B)       | F          |
| 10       |            |            |            |            | C          | C(B)       | D          | D(C)       | F          |
| 22       | A          | B(A)       | C          | (B)        |            | D(C)       |            | E(D)       | F          |
| 33       | B          | (B)        |            | C(B)       | D          | (C)        |            | F(E)       | G          |
| 47       | B          | C(B)       | D          | (C)        |            | D(C)       |            | G(F)       |            |
| 100      | C          | D(C)       |            | D(C)       |            | E(D)       |            | G(F)       |            |
| 220      | D          | (D)        |            | E          | F          | G(F)       |            | G          |            |
| 330      | (D)        | E          |            | F          | G(F)       | G(F)       |            |            |            |
| 470      |            | F          |            | G(F)       | G(F)       | G          |            |            |            |
| 1000     |            | G(F)       |            | G          |            |            |            |            |            |
| 1500     |            | G          |            |            |            |            |            |            |            |

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### ■ Standard Products

| W.V.<br>(V) | Cap.<br>( $\pm 20\%$ )<br>( $\mu\text{F}$ ) | Case size    |                |           | Specification                                |                            |                      | Part No.     | Min. Packaging Q'ty |
|-------------|---------------------------------------------|--------------|----------------|-----------|----------------------------------------------|----------------------------|----------------------|--------------|---------------------|
|             |                                             | Dia.<br>(mm) | Length<br>(mm) | Size Code | Ripple current<br>(120Hz)<br>(+85°C)<br>(mA) | D.F.<br>(120Hz)<br>(+20°C) | Endurance<br>(hours) |              | Taping<br>(pcs)     |
| 4           | 22                                          | 3            | 5.4            | A         | 19                                           | 0.37                       | 1000                 | ECEV0GS220SR | 2000                |
|             | 33                                          | 4            | 5.4            | B         | 26                                           | 0.35                       | 1000                 | ECEV0GA330SR | 2000                |
|             | 47                                          | 4            | 5.4            | B         | 34                                           | 0.35                       | 1000                 | ECEV0GA470SR | 2000                |
|             | 100                                         | 5            | 5.4            | C         | 61                                           | 0.35                       | 1000                 | ECEV0GA101SR | 1000                |
|             | 220                                         | 6.3          | 5.4            | D         | 82                                           | 0.35                       | 1000                 | ECEV0GA221SP | 1000                |
|             | 330                                         | 6.3          | 5.4            | D         | 80                                           | 0.50                       | 1000                 | ECEV0GA331WP | 1000                |
| 6.3         | 22                                          | 3            | 5.4            | A         | 20                                           | 0.35                       | 1000                 | ECEV0JS220WR | 2000                |
|             |                                             | 4            | 5.4            | B         | 29                                           | 0.26                       | 2000                 | ECEV0JA220SR | 2000                |
|             | 33                                          | 4            | 5.4            | B         | 22                                           | 0.35                       | 1000                 | ECEV0JA330WR | 2000                |
|             | 47                                          | 4            | 5.4            | B         | 36                                           | 0.35                       | 1000                 | ECEV0JA470WR | 2000                |
|             |                                             | 5            | 5.4            | C         | 46                                           | 0.26                       | 2000                 | ECEV0JA470SR | 1000                |
|             | 100                                         | 5            | 5.4            | C         | 47                                           | 0.35                       | 1000                 | ECEV0JA101WR | 1000                |
|             |                                             | 6.3          | 5.4            | D         | 71                                           | 0.26                       | 2000                 | ECEV0JA101SP | 1000                |
|             | 220                                         | 6.3          | 5.4            | D         | 74                                           | 0.35                       | 1000                 | ECEV0JA221WP | 1000                |
|             | 330                                         | 8            | 6.2            | E         | 300                                          | 0.35                       | 2000                 | ECEV0JA331P  | 1000                |
|             | 470                                         | 8            | 10.2           | F         | 380                                          | 0.35                       | 2000                 | ECEV0JA471P  | 500                 |
|             | 1000                                        | 8            | 10.2           | F         | 500                                          | 0.35                       | 2000                 | ECEV0JA102UP | 500                 |
|             |                                             | 10           | 10.2           | G         | 700                                          | 0.35                       | 2000                 | ECEV0JA102P  | 500                 |
| 10          | 1500                                        | 10           | 10.2           | G         | 750                                          | 0.35                       | 2000                 | ECEV0JA152P  | 500                 |
|             | 22                                          | 4            | 5.4            | B         | 28                                           | 0.30                       | 1000                 | ECEV1AA220WR | 2000                |
|             | 33                                          | 4            | 5.4            | B         | 29                                           | 0.30                       | 1000                 | ECEV1AA330WR | 2000                |
|             |                                             | 5            | 5.4            | C         | 43                                           | 0.20                       | 2000                 | ECEV1AA330SR | 1000                |
|             | 47                                          | 5            | 5.4            | C         | 43                                           | 0.30                       | 1000                 | ECEV1AA470WR | 1000                |
|             | 100                                         | 5            | 5.4            | C         | 50                                           | 0.30                       | 1000                 | ECEV1AA101WR | 1000                |
|             |                                             | 6.3          | 5.4            | D         | 70                                           | 0.26                       | 2000                 | ECEV1AA101SP | 1000                |
|             | 220                                         | 8            | 6.2            | E         | 250                                          | 0.26                       | 2000                 | ECEV1AA221P  | 1000                |
|             | 330                                         | 8            | 10.2           | F         | 330                                          | 0.26                       | 2000                 | ECEV1AA331P  | 500                 |
|             | 470                                         | 8            | 10.2           | F         | 330                                          | 0.26                       | 2000                 | ECEV1AA471UP | 500                 |
|             |                                             | 10           | 10.2           | G         | 400                                          | 0.26                       | 2000                 | ECEV1AA471P  | 500                 |
| 16          | 1000                                        | 10           | 10.2           | G         | 580                                          | 0.26                       | 2000                 | ECEV1AA102P  | 500                 |
|             | 10                                          | 3            | 5.4            | A         | 20                                           | 0.18                       | 1000                 | ECEV1CS100SR | 2000                |
|             |                                             | 4            | 5.4            | B         | 28                                           | 0.16                       | 2000                 | ECEV1CA100SR | 2000                |
|             | 22                                          | 4            | 5.4            | B         | 28                                           | 0.26                       | 1000                 | ECEV1CA220WR | 2000                |
|             |                                             | 5            | 5.4            | C         | 39                                           | 0.16                       | 2000                 | ECEV1CA220SR | 1000                |
|             | 33                                          | 5            | 5.4            | C         | 35                                           | 0.26                       | 1000                 | ECEV1CA330WR | 1000                |
|             | 47                                          | 5            | 5.4            | C         | 39                                           | 0.26                       | 1000                 | ECEV1CA470WR | 1000                |
|             |                                             | 6.3          | 5.4            | D         | 70                                           | 0.16                       | 2000                 | ECEV1CA470SP | 1000                |
|             | 100                                         | 6.3          | 5.4            | D         | 70                                           | 0.26                       | 1000                 | ECEV1CA101WP | 1000                |
|             |                                             | 8            | 6.2            | E         | 200                                          | 0.20                       | 2000                 | ECEV1CA101P  | 1000                |
|             | 220                                         | 8            | 10.2           | F         | 280                                          | 0.20                       | 2000                 | ECEV1CA221P  | 500                 |
|             | 330                                         | 8            | 10.2           | F         | 320                                          | 0.20                       | 2000                 | ECEV1CA331UP | 500                 |
|             |                                             | 10           | 10.2           | G         | 380                                          | 0.20                       | 2000                 | ECEV1CA331P  | 500                 |
|             | 470                                         | 8            | 10.2           | F         | 350                                          | 0.20                       | 2000                 | ECEV1CA471UP | 500                 |
|             |                                             | 10           | 10.2           | G         | 420                                          | 0.20                       | 2000                 | ECEV1CA471P  | 500                 |

The taping dimension are explained on p.24 of our Catalog.  
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■ Standard Products

| W.V.<br>(V) | Cap.<br>(±20%)<br>(μF) | Case size    |                |              | Specification                                   |                            |                      | Part No.     | Min. Packaging<br>Q'ty |
|-------------|------------------------|--------------|----------------|--------------|-------------------------------------------------|----------------------------|----------------------|--------------|------------------------|
|             |                        | Dia.<br>(mm) | Length<br>(mm) | Size<br>Code | Ripple<br>current<br>(120Hz)<br>(+85°C)<br>(mA) | D.F.<br>(120Hz)<br>(+20°C) | Endurance<br>(hours) |              | Taping<br>(pcs)        |
| 25          | 4.7                    | 3            | 5.4            | A            | 12                                              | 0.16                       | 1000                 | ECEV1ES4R7SR | 2000                   |
|             |                        | 4            | 5.4            | B            | 22                                              | 0.14                       | 2000                 | ECEV1EA4R7SR | 2000                   |
|             | 10                     | 4            | 5.4            | B            | 22                                              | 0.12                       | 1000                 | ECEV1EA100WR | 2000                   |
|             |                        | 5            | 5.4            | C            | 28                                              | 0.14                       | 2000                 | ECEV1EA100SR | 1000                   |
|             | 22                     | 5            | 5.4            | C            | 35                                              | 0.20                       | 1000                 | ECEV1EA220WR | 1000                   |
|             |                        | 6.3          | 5.4            | D            | 55                                              | 0.14                       | 2000                 | ECEV1EA220SP | 1000                   |
|             | 33                     | 5            | 5.4            | C            | 42                                              | 0.20                       | 1000                 | ECEV1EA330WR | 1000                   |
|             |                        | 6.3          | 5.4            | D            | 65                                              | 0.14                       | 2000                 | ECEV1EA330SP | 1000                   |
|             | 47                     | 6.3          | 5.4            | D            | 70                                              | 0.20                       | 1000                 | ECEV1EA470WP | 1000                   |
|             |                        | 8            | 6.2            | E            | 91                                              | 0.16                       | 2000                 | ECEV1EA101UP | 1000                   |
|             | 100                    | 8            | 10.2           | F            | 180                                             | 0.16                       | 2000                 | ECEV1EA101P  | 500                    |
|             |                        | 8            | 10.2           | F            | 230                                             | 0.16                       | 2000                 | ECEV1EA221UP | 500                    |
|             | 220                    | 10           | 10.2           | G            | 310                                             | 0.16                       | 2000                 | ECEV1EA221P  | 500                    |
|             |                        | 8            | 10.2           | F            | 270                                             | 0.16                       | 2000                 | ECEV1EA331UP | 500                    |
|             | 330                    | 10           | 10.2           | G            | 340                                             | 0.16                       | 2000                 | ECEV1EA331P  | 500                    |
|             |                        | 10           | 10.2           | G            | 380                                             | 0.16                       | 2000                 | ECEV1EA471P  | 500                    |
| 35          | 2.2                    | 3            | 5.4            | A            | 8                                               | 0.14                       | 1000                 | ECEV1VS2R2SR | 2000                   |
|             | 3.3                    | 3            | 5.4            | A            | 10                                              | 0.14                       | 1000                 | ECEV1VS3R3SR | 2000                   |
|             | 4.7                    | 4            | 5.4            | B            | 22                                              | 0.12                       | 2000                 | ECEV1VA4R7SR | 2000                   |
|             | 10                     | 4            | 5.4            | B            | 22                                              | 0.16                       | 1000                 | ECEV1VA100WR | 2000                   |
|             |                        | 5            | 5.4            | C            | 30                                              | 0.12                       | 2000                 | ECEV1VA100SR | 1000                   |
|             | 22                     | 5            | 5.4            | C            | 36                                              | 0.16                       | 1000                 | ECEV1VA220WR | 1000                   |
|             |                        | 6.3          | 5.4            | D            | 60                                              | 0.12                       | 2000                 | ECEV1VA220SP | 1000                   |
|             | 33                     | 6.3          | 5.4            | D            | 60                                              | 0.16                       | 1000                 | ECEV1VA330WP | 1000                   |
|             |                        | 8            | 6.2            | E            | 130                                             | 0.14                       | 2000                 | ECEV1VA330P  | 1000                   |
|             | 47                     | 6.3          | 5.4            | D            | 70                                              | 0.16                       | 1000                 | ECEV1VA470WP | 1000                   |
|             |                        | 8            | 6.2            | E            | 165                                             | 0.14                       | 2000                 | ECEV1VA470P  | 1000                   |
|             | 100                    | 8            | 10.2           | F            | 140                                             | 0.14                       | 2000                 | ECEV1VA101UP | 500                    |
|             |                        | 10           | 10.2           | G            | 210                                             | 0.14                       | 2000                 | ECEV1VA101P  | 500                    |
|             | 220                    | 8            | 10.2           | F            | 200                                             | 0.14                       | 2000                 | ECEV1VA221UP | 500                    |
|             |                        | 10           | 10.2           | G            | 310                                             | 0.14                       | 2000                 | ECEV1VA221P  | 500                    |
|             | 330                    | 10           | 10.2           | G            | 350                                             | 0.14                       | 2000                 | ECEV1VA331P  | 500                    |
| 50          | 0.1                    | 3            | 5.4            | A            | 1                                               | 0.14                       | 1000                 | ECEV1HS0R1SR | 2000                   |
|             |                        | 4            | 5.4            | B            | 1                                               | 0.12                       | 2000                 | ECEV1HA0R1SR | 2000                   |
|             | 0.22                   | 3            | 5.4            | A            | 2                                               | 0.14                       | 1000                 | ECEV1HSR22SR | 2000                   |
|             |                        | 4            | 5.4            | B            | 2                                               | 0.12                       | 2000                 | ECEV1HAR22SR | 2000                   |
|             | 0.33                   | 3            | 5.4            | A            | 3                                               | 0.14                       | 1000                 | ECEV1HSR33SR | 2000                   |
|             |                        | 4            | 5.4            | B            | 3                                               | 0.12                       | 2000                 | ECEV1HAR33SR | 2000                   |
|             | 0.47                   | 3            | 5.4            | A            | 5                                               | 0.14                       | 1000                 | ECEV1HSR47SR | 2000                   |
|             |                        | 4            | 5.4            | B            | 5                                               | 0.12                       | 2000                 | ECEV1HAR47SR | 2000                   |
|             | 1                      | 3            | 5.4            | A            | 8                                               | 0.14                       | 1000                 | ECEV1HS010SR | 2000                   |
|             |                        | 4            | 5.4            | B            | 10                                              | 0.12                       | 2000                 | ECEV1HA010SR | 2000                   |
|             | 2.2                    | 4            | 5.4            | B            | 16                                              | 0.12                       | 2000                 | ECEV1HA2R2SR | 2000                   |
|             | 3.3                    | 4            | 5.4            | B            | 16                                              | 0.12                       | 2000                 | ECEV1HA3R3SR | 2000                   |

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■ Standard Products

| W.V.<br>(V) | Cap.<br>(±20%)<br>(μF) | Case size    |                |              | Specification                                   |                            |                      | Part No.     | Min. Packaging<br>Q'ty |
|-------------|------------------------|--------------|----------------|--------------|-------------------------------------------------|----------------------------|----------------------|--------------|------------------------|
|             |                        | Dia.<br>(mm) | Length<br>(mm) | Size<br>Code | Ripple<br>current<br>(120Hz)<br>(+85°C)<br>(mA) | D.F.<br>(120Hz)<br>(+20°C) | Endurance<br>(hours) |              | Taping<br>(pcs)        |
| 50          | 4.7                    | 4            | 5.4            | B            | 18                                              | 0.14                       | 1000                 | ECEV1HA4R7WR | 2000                   |
|             |                        | 5            | 5.4            | C            | 23                                              | 0.12                       | 2000                 | ECEV1HA4R7SR | 1000                   |
|             | 10                     | 5            | 5.4            | C            | 27                                              | 0.14                       | 1000                 | ECEV1HA100WR | 1000                   |
|             |                        | 6.3          | 5.4            | D            | 35                                              | 0.12                       | 2000                 | ECEV1HA100SP | 1000                   |
|             | 22                     | 6.3          | 5.4            | D            | 40                                              | 0.14                       | 1000                 | ECEV1HA220WP | 1000                   |
|             |                        | 8            | 6.2            | E            | 120                                             | 0.12                       | 2000                 | ECEV1HA220P  | 1000                   |
|             | 33                     | 8            | 6.2            | E            | 65                                              | 0.12                       | 2000                 | ECEV1HA330UP | 1000                   |
|             |                        | 8            | 10.2           | F            | 110                                             | 0.12                       | 2000                 | ECEV1HA330P  | 500                    |
|             | 47                     | 8            | 10.2           | F            | 110                                             | 0.12                       | 2000                 | ECEV1HA470UP | 500                    |
|             |                        | 10           | 10.2           | G            | 130                                             | 0.12                       | 2000                 | ECEV1HA470P  | 500                    |
|             | 100                    | 8            | 10.2           | F            | 200                                             | 0.12                       | 2000                 | ECEV1HA101UP | 500                    |
|             |                        | 10           | 10.2           | G            | 250                                             | 0.12                       | 2000                 | ECEV1HA101P  | 500                    |
| 63          | 220                    | 10           | 10.2           | G            | 300                                             | 0.12                       | 2000                 | ECEV1HA221P  | 500                    |
|             | 22                     | 8            | 10.2           | F            | 40                                              | 0.18                       | 2000                 | ECEV1JA220P  | 500                    |
|             | 33                     | 8            | 10.2           | F            | 45                                              | 0.18                       | 2000                 | ECEV1JA330P  | 500                    |
|             | 47                     | 8            | 10.2           | F            | 45                                              | 0.18                       | 2000                 | ECEV1JA470P  | 500                    |
|             | 100                    | 10           | 10.2           | G            | 60                                              | 0.18                       | 2000                 | ECEV1JA101P  | 500                    |
| 100         | 3.3                    | 8            | 6.2            | E            | 50                                              | 0.18                       | 2000                 | ECEV2AA3R3P  | 1000                   |
|             | 4.7                    | 8            | 10.2           | F            | 80                                              | 0.18                       | 2000                 | ECEV2AA4R7P  | 500                    |
|             | 10                     | 8            | 10.2           | F            | 85                                              | 0.18                       | 2000                 | ECEV2AA100P  | 500                    |
|             | 22                     | 10           | 10.2           | G            | 85                                              | 0.18                       | 2000                 | ECEV2AA220P  | 500                    |
|             | 33                     | 10           | 10.2           | G            | 90                                              | 0.18                       | 2000                 | ECEV2AA330P  | 500                    |

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■ Standard Products(Bi-polar)

| W.V.<br>(V) | Cap.<br>(±20%)<br>(μF) | Case size    |                |              | Specification                                   |                            |                      | Part No.     | Min. Packaging<br>Q'ty |
|-------------|------------------------|--------------|----------------|--------------|-------------------------------------------------|----------------------------|----------------------|--------------|------------------------|
|             |                        | Dia.<br>(mm) | Length<br>(mm) | Size<br>Code | Ripple<br>current<br>(120Hz)<br>(+85°C)<br>(mA) | D.F.<br>(120Hz)<br>(+20°C) | Endurance<br>(hours) |              | Taping<br>(pcs)        |
| 6.3         | 22                     | 5            | 5.4            | C            | 29                                              | 0.52                       | 2000                 | ECEV0JA220NR | 1000                   |
|             | 47                     | 6.3          | 5.4            | D            | 46                                              | 0.52                       | 2000                 | ECEV0JA470NP | 1000                   |
| 10          | 10                     | 4            | 5.4            | B            | 25                                              | 0.40                       | 2000                 | ECEV1AA100NR | 2000                   |
|             | 33                     | 6.3          | 5.4            | D            | 43                                              | 0.40                       | 2000                 | ECEV1AA330NP | 1000                   |
| 16          | 4.7                    | 4            | 5.4            | B            | 20                                              | 0.32                       | 2000                 | ECEV1CA4R7NR | 2000                   |
|             | 10                     | 5            | 5.4            | C            | 25                                              | 0.32                       | 2000                 | ECEV1CA100NR | 1000                   |
|             | 22                     | 6.3          | 5.4            | D            | 39                                              | 0.32                       | 2000                 | ECEV1CA220NP | 1000                   |
| 25          | 3.3                    | 4.0          | 5.4            | B            | 12                                              | 0.28                       | 2000                 | ECEV1EA3R3NR | 2000                   |
|             | 4.7                    | 5            | 5.4            | C            | 21                                              | 0.28                       | 2000                 | ECEV1EA4R7NR | 1000                   |
|             | 10                     | 6.3          | 5.4            | D            | 28                                              | 0.28                       | 2000                 | ECEV1EA100NP | 1000                   |
| 35          | 2.2                    | 4            | 5.4            | B            | 12                                              | 0.24                       | 2000                 | ECEV1VA2R2NR | 2000                   |
|             | 4.7                    | 5            | 5.4            | C            | 22                                              | 0.24                       | 2000                 | ECEV1VA4R7NR | 1000                   |
|             | 10                     | 6.3          | 5.4            | D            | 30                                              | 0.24                       | 2000                 | ECEV1VA100NP | 1000                   |
| 50          | 0.22                   | 4            | 5.4            | B            | 2                                               | 0.24                       | 2000                 | ECEV1HAR22NR | 2000                   |
|             | 0.33                   | 4            | 5.4            | B            | 3                                               | 0.24                       | 2000                 | ECEV1HAR33NR | 2000                   |
|             | 0.47                   | 4            | 5.4            | B            | 5                                               | 0.24                       | 2000                 | ECEV1HAR47NR | 2000                   |
|             | 1                      | 4            | 5.4            | B            | 10                                              | 0.24                       | 2000                 | ECEV1HA010NR | 2000                   |
|             | 2.2                    | 5            | 5.4            | C            | 16                                              | 0.24                       | 2000                 | ECEV1HA2R2NR | 1000                   |
|             | 3.3                    | 5            | 5.4            | C            | 21                                              | 0.24                       | 2000                 | EEVNZ1H3R3R  | 1000                   |
|             | 4.7                    | 6.3          | 5.4            | D            | 31                                              | 0.24                       | 2000                 | ECEV1HA4R7NP | 1000                   |

The taping dimension are explained on p.24 of our Catalog.  
Please use it as a reference guide.