

### Surface Mount Type

Series: **S** Type: **V**



#### Features

- Endurance : 85 °C 2000 h
- Vibration-proof product is available upon request. (φ8 mm and larger)
- RoHS compliant

#### Specifications

|                                    |  |                                   |                      |    |               |    |           |    |    |     |                                      |
|------------------------------------|--|-----------------------------------|----------------------|----|---------------|----|-----------|----|----|-----|--------------------------------------|
| Category temp. range               | -40 °C to +85 °C   |                                   |                      |    |               |    |           |    |    |     |                                      |
| Rated voltage range                | 4 V.DC to 100 V.DC   |                                   |                      |    |               |    |           |    |    |     |                                      |
| Capacitance range                  | 1 μF to 1500 μF  |                                   |                      |    |               |    |           |    |    |     |                                      |
| Capacitance tolerance              | ±20 % (120 Hz/+20°C)   |                                   |                      |    |               |    |           |    |    |     |                                      |
| Leakage cur rent                   | I ≤ 0.01 CV or 3 (μA) (Bi-Polar I ≤ 0.02 CV or 6 (μA)) After 2 minutes (Whichever is greater)  |                                   |                      |    |               |    |           |    |    |     |                                      |
| Dissipation factor (tan δ)         | Please see the attached characteristics list   |                                   |                      |    |               |    |           |    |    |     |                                      |
| Characteristics at low temperature | V.DC   | 4                                 | 6.3                  | 10 | 16            | 25 | 35        | 50 | 63 | 100 | (Impedance ratio at 120 Hz)          |
|                                    | Z(-25 °C)/Z(+20 °C)  | 7                                 | 4                    | 3  | 2             | 2  | 2         | 2  | 3  | 3   |                                      |
|                                    | Z(-40 °C)/Z(+20 °C)  | 15                                | 8                    | 6  | 4             | 4  | 3         | 3  | 4  | 4   |                                      |
| Endurance                          | After applying rated working voltage for 2000 h (Bi-polar:1000 h for each polarity) at +85 °C±2 °C and then being stabilized at +20 °C, Capacitors shall meet the following limits.    |                                   |                      |    |               |    |           |    |    |     |                                      |
|                                    | Capacitance change   | Within ±20 % of the initial value |                      |    |               |    |           |    |    |     | 1000 hours ±30 %<br>1000 hours ±20 % |
|                                    |  | Size code                         | B(φ4) to D, D8(φ6.3) |    | Rated voltage |    | 4 V.DC    |    |    |     |                                      |
|                                    |  | ≤ D(φ6.3) Miniature               |                      |    | 6.3 V.DC      |    | ≥ 10 V.DC |    |    |     |                                      |
| tan δ                              | ≤200 % of the initial limit  |                                   |                      |    |               |    |           |    |    |     |                                      |
| DC leakage current                 | Within the initial limit   |                                   |                      |    |               |    |           |    |    |     |                                      |
| Shelf life                         | After storage for 1000 h at +85 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment) |                                   |                      |    |               |    |           |    |    |     |                                      |
| Resistance to soldering heat       | After reflow soldering and then being stabilized at +20 °C, capacitors shall meet the following limits.  |                                   |                      |    |               |    |           |    |    |     |                                      |
|                                    | Capacitance change   | Within ±10 % of the initial value |                      |    |               |    |           |    |    |     |                                      |
|                                    | tan δ  | Within the initial limit          |                      |    |               |    |           |    |    |     |                                      |
| DC leakage current                 | Within the initial limit   |                                   |                      |    |               |    |           |    |    |     |                                      |
| AEC-Q200                           | AEC-Q200 compliant   |                                   |                      |    |               |    |           |    |    |     |                                      |

#### Frequency correction factor for ripple current

|                   |        |      |      |         |
|-------------------|--------|------|------|---------|
| Frequency (Hz)    | 50, 60 | 120  | 1 k  | 10 k to |
| Correction factor | 0.70   | 1.00 | 1.30 | 1.70    |

#### Marking

Example : 4 V.DC 33 μF  
Marking color : BLACK

Negative polarity marking (-)  
(No marking for the bi-polar)

Capacitance (μF)

Series identification (S) or (A)

Mark for Lead-Free products (Black dot)

Lot number

Rated voltage (V.DC)  
(6=6.3 V.DC)

#### Dimensions

( ) Reference size

Unit : mm

| Size code | D    | L                                   | A,B  | H         | I   | W        | P   | K                                      |
|-----------|------|-------------------------------------|------|-----------|-----|----------|-----|--|
| B         | 4.0  | 5.4 <sup>+0.1</sup> <sub>-0.2</sub> | 4.3  | 5.5 max.  | 1.8 | 0.65±0.1 | 1.0 | 0.35 <sup>+0.15</sup> <sub>-0.20</sub> |
| C         | 5.0  | 5.4 <sup>+0.1</sup> <sub>-0.2</sub> | 5.3  | 6.5 max.  | 2.2 | 0.65±0.1 | 1.5 | 0.35 <sup>+0.15</sup> <sub>-0.20</sub> |
| D         | 6.3  | 5.4 <sup>+0.1</sup> <sub>-0.2</sub> | 6.6  | 7.8 max.  | 2.6 | 0.65±0.1 | 1.8 | 0.35 <sup>+0.15</sup> <sub>-0.20</sub> |
| D8        | 6.3  | 7.7±0.3                             | 6.6  | 7.8 max.  | 2.6 | 0.65±0.1 | 1.8 | 0.35 <sup>+0.15</sup> <sub>-0.20</sub> |
| E         | 8.0  | 6.2±0.3                             | 8.3  | 9.5 max.  | 3.4 | 0.65±0.1 | 2.2 | 0.35 <sup>+0.15</sup> <sub>-0.20</sub> |
| F         | 8.0  | 10.2±0.3                            | 8.3  | 10.0 max. | 3.4 | 0.90±0.2 | 3.1 | 0.70±0.2                               |
| G         | 10.0 | 10.2±0.3                            | 10.3 | 12.0 max. | 3.5 | 0.90±0.2 | 4.6 | 0.70±0.2                               |

### Characteristics list

| Rated voltage (V.DC) | Capacitance (±20 %) (μF) | Case size (mm) |      | Size code *1 | Specification                 |          |                   | Part number | Reflow | min. Packing Qty |
|----------------------|--------------------------|----------------|------|--------------|-------------------------------|----------|-------------------|-------------|--------|------------------|
|                      |                          | φD             | L    |              | Ripple current *2 (mA r.m.s.) | tan δ *3 | Endurance (hours) |             |        | Taping (pcs)     |
| 4                    | 33                       | 4.0            | 5.4  | B            | 26                            | 0.35     | 1000              | EEE0GA330SR | (1)    | 2000             |
|                      | 47                       | 4.0            | 5.4  | B            | 34                            | 0.35     | 1000              | EEE0GA470SR | (1)    | 2000             |
|                      | 100                      | 5.0            | 5.4  | C            | 61                            | 0.35     | 1000              | EEE0GA101SR | (1)    | 1000             |
|                      | 220                      | 6.3            | 5.4  | D            | 82                            | 0.35     | 1000              | EEE0GA221SP | (1)    | 1000             |
|                      | 330                      | 6.3            | 5.4  | (D)          | 80                            | 0.50     | 1000              | EEE0GA331WP | (1)    | 1000             |
|                      | 470                      | 6.3            | 7.7  | D8           | 200                           | 0.35     | 1000              | EEE0GA471XP | (1)    | 900              |
| 6.3                  | 22                       | 4.0            | 5.4  | B            | 29                            | 0.26     | 2000              | EEE0JA220SR | (1)    | 2000             |
|                      | 33                       | 4.0            | 5.4  | (B)          | 22                            | 0.35     | 1000              | EEE0JA330WR | (1)    | 2000             |
|                      |                          | 4.0            | 5.4  | (B)          | 36                            | 0.35     | 1000              | EEE0JA470WR | (1)    | 2000             |
|                      | 47                       | 5.0            | 5.4  | C            | 46                            | 0.26     | 2000              | EEE0JA470SR | (1)    | 1000             |
|                      |                          | 5.0            | 5.4  | (C)          | 47                            | 0.35     | 1000              | EEE0JA101WR | (1)    | 1000             |
|                      | 100                      | 6.3            | 5.4  | D            | 71                            | 0.26     | 2000              | EEE0JA101SP | (1)    | 1000             |
|                      |                          | 6.3            | 5.4  | (D)          | 74                            | 0.35     | 1000              | EEE0JA221WP | (1)    | 1000             |
|                      | 330                      | 6.3            | 7.7  | D8           | 188                           | 0.26     | 2000              | EEE0JA331XP | (1)    | 900              |
|                      |                          | 8.0            | 6.2  | E            | 300                           | 0.35     | 2000              | EEE0JA331P  | (2)    | 1000             |
|                      | 470                      | 8.0            | 10.2 | F            | 380                           | 0.35     | 2000              | EEE0JA471P  | (2)    | 500              |
|                      | 1000                     | 8.0            | 10.2 | (F)          | 500                           | 0.35     | 2000              | EEE0JA102UP | (2)    | 500              |
|                      |                          | 10.0           | 10.2 | G            | 700                           | 0.35     | 2000              | EEE0JA102P  | (2)    | 500              |
| 1500                 | 10.0                     | 10.2           | G    | 750          | 0.35                          | 2000     | EEE0JA152P        | (2)         | 500    |                  |
| 10                   | 22                       | 4.0            | 5.4  | (B)          | 28                            | 0.30     | 1000              | EEE1AA220WR | (1)    | 2000             |
|                      | 33                       | 4.0            | 5.4  | (B)          | 29                            | 0.30     | 1000              | EEE1AA330WR | (1)    | 2000             |
|                      |                          | 5.0            | 5.4  | C            | 43                            | 0.20     | 2000              | EEE1AA330SR | (1)    | 1000             |
|                      | 47                       | 5.0            | 5.4  | (C)          | 43                            | 0.30     | 1000              | EEE1AA470WR | (1)    | 1000             |
|                      | 100                      | 5.0            | 5.4  | (C)          | 50                            | 0.30     | 1000              | EEE1AA101WR | (1)    | 1000             |
|                      |                          | 6.3            | 5.4  | D            | 70                            | 0.26     | 2000              | EEE1AA101SP | (1)    | 1000             |
|                      | 220                      | 6.3            | 7.7  | D8           | 173                           | 0.20     | 2000              | EEE1AA221XP | (1)    | 900              |
|                      |                          | 8.0            | 6.2  | E            | 250                           | 0.26     | 2000              | EEE1AA221P  | (2)    | 1000             |
|                      | 330                      | 8.0            | 10.2 | F            | 390                           | 0.26     | 2000              | EEE1AA331P  | (2)    | 500              |
|                      | 470                      | 8.0            | 10.2 | (F)          | 390                           | 0.26     | 2000              | EEE1AA471UP | (2)    | 500              |
|                      |                          | 10.0           | 10.2 | G            | 400                           | 0.26     | 2000              | EEE1AA471P  | (2)    | 500              |
|                      | 1000                     | 10.0           | 10.2 | G            | 580                           | 0.26     | 2000              | EEE1AA102P  | (2)    | 500              |
| 16                   | 10                       | 4.0            | 5.4  | B            | 28                            | 0.16     | 2000              | EEE1CA100SR | (1)    | 2000             |
|                      | 22                       | 4.0            | 5.4  | (B)          | 28                            | 0.26     | 1000              | EEE1CA220WR | (1)    | 2000             |
|                      |                          | 5.0            | 5.4  | C            | 39                            | 0.16     | 2000              | EEE1CA220SR | (1)    | 1000             |
|                      | 33                       | 5.0            | 5.4  | (C)          | 35                            | 0.26     | 1000              | EEE1CA330WR | (1)    | 1000             |
|                      |                          | 5.0            | 5.4  | (C)          | 39                            | 0.26     | 1000              | EEE1CA470WR | (1)    | 1000             |
|                      | 47                       | 6.3            | 5.4  | D            | 70                            | 0.16     | 2000              | EEE1CA470SP | (1)    | 1000             |
|                      |                          | 6.3            | 5.4  | (D)          | 70                            | 0.26     | 1000              | EEE1CA101WP | (1)    | 1000             |
|                      | 100                      | 8.0            | 6.2  | E            | 200                           | 0.20     | 2000              | EEE1CA101P  | (2)    | 1000             |
|                      |                          | 6.3            | 7.7  | D8           | 162                           | 0.16     | 2000              | EEE1CA221XP | (1)    | 900              |
|                      | 220                      | 8.0            | 6.2  | E            | 200                           | 0.20     | 2000              | EEE1CA221UP | (2)    | 1000             |
|                      |                          | 8.0            | 10.2 | F            | 280                           | 0.20     | 2000              | EEE1CA221P  | (2)    | 500              |
|                      | 330                      | 8.0            | 10.2 | (F)          | 320                           | 0.20     | 2000              | EEE1CA331UP | (2)    | 500              |
|                      |                          | 10.0           | 10.2 | G            | 380                           | 0.20     | 2000              | EEE1CA331P  | (2)    | 500              |
|                      | 470                      | 8.0            | 10.2 | (F)          | 350                           | 0.20     | 2000              | EEE1CA471UP | (2)    | 500              |
|                      |                          | 10.0           | 10.2 | G            | 420                           | 0.20     | 2000              | EEE1CA471P  | (2)    | 500              |

\*1: Size code ( ) : Miniaturization product

\*2: Ripple current (120 Hz / +85 °C)

\*3: tan δ (120 Hz / +20 °C)

• Please refer to the page of "Reflow Profile" and "The Taping Dimensions".

• When requesting vibration-proof product, please put the last "V" instead to "P"

### Characteristics list

| Rated voltage (V.DC) | Capacitance (±20 %) (μF) | Case size (mm) |      | Size code *1 | Specification                 |          |                   | Part number | Reflow | min. Packing Qty |
|----------------------|--------------------------|----------------|------|--------------|-------------------------------|----------|-------------------|-------------|--------|------------------|
|                      |                          | φD             | L    |              | Ripple current *2 (mA r.m.s.) | tan δ *3 | Endurance (hours) |             |        | Taping (pcs)     |
| 25                   | 4.7                      | 4.0            | 5.4  | B            | 22                            | 0.14     | 2000              | EEE1EA4R7SR | (1)    | 2000             |
|                      | 10                       | 4.0            | 5.4  | (B)          | 22                            | 0.20     | 1000              | EEE1EA100WR | (1)    | 2000             |
|                      |                          | 5.0            | 5.4  | C            | 28                            | 0.14     | 2000              | EEE1EA100SR | (1)    | 1000             |
|                      | 22                       | 5.0            | 5.4  | (C)          | 35                            | 0.20     | 1000              | EEE1EA220WR | (1)    | 1000             |
|                      |                          | 6.3            | 5.4  | D            | 55                            | 0.14     | 2000              | EEE1EA220SP | (1)    | 1000             |
|                      | 33                       | 5.0            | 5.4  | (C)          | 42                            | 0.20     | 1000              | EEE1EA330WR | (1)    | 1000             |
|                      |                          | 6.3            | 5.4  | D            | 65                            | 0.14     | 2000              | EEE1EA330SP | (1)    | 1000             |
|                      | 47                       | 6.3            | 5.4  | (D)          | 70                            | 0.20     | 1000              | EEE1EA470WP | (1)    | 1000             |
|                      | 100                      | 6.3            | 7.7  | D8           | 143                           | 0.14     | 2000              | EEE1EA101XP | (1)    | 900              |
|                      |                          | 8.0            | 6.2  | (E)          | 91                            | 0.16     | 2000              | EEE1EA101UP | (2)    | 1000             |
|                      |                          | 8.0            | 10.2 | F            | 180                           | 0.16     | 2000              | EEE1EA101P  | (2)    | 500              |
|                      | 220                      | 8.0            | 10.2 | (F)          | 230                           | 0.16     | 2000              | EEE1EA221UP | (2)    | 500              |
|                      |                          | 10.0           | 10.2 | G            | 310                           | 0.16     | 2000              | EEE1EA221P  | (2)    | 500              |
|                      | 330                      | 8.0            | 10.2 | (F)          | 270                           | 0.16     | 2000              | EEE1EA331UP | (2)    | 500              |
| 10.0                 |                          | 10.2           | G    | 340          | 0.16                          | 2000     | EEE1EA331P        | (2)         | 500    |                  |
| 470                  | 10.0                     | 10.2           | G    | 380          | 0.16                          | 2000     | EEE1EA471P        | (2)         | 500    |                  |
| 35                   | 4.7                      | 4.0            | 5.4  | B            | 22                            | 0.12     | 2000              | EEE1VA4R7SR | (1)    | 2000             |
|                      | 10                       | 4.0            | 5.4  | (B)          | 22                            | 0.16     | 1000              | EEE1VA100WR | (1)    | 2000             |
|                      |                          | 5.0            | 5.4  | C            | 30                            | 0.12     | 2000              | EEE1VA100SR | (1)    | 1000             |
|                      | 22                       | 5.0            | 5.4  | (C)          | 36                            | 0.16     | 1000              | EEE1VA220WR | (1)    | 1000             |
|                      |                          | 6.3            | 5.4  | D            | 60                            | 0.12     | 2000              | EEE1VA220SP | (1)    | 1000             |
|                      | 33                       | 6.3            | 5.4  | (D)          | 60                            | 0.16     | 1000              | EEE1VA330WP | (1)    | 1000             |
|                      |                          | 8.0            | 6.2  | E            | 130                           | 0.14     | 2000              | EEE1VA330P  | (2)    | 1000             |
|                      | 47                       | 6.3            | 5.4  | (D)          | 70                            | 0.16     | 1000              | EEE1VA470WP | (1)    | 1000             |
|                      |                          | 8.0            | 6.2  | E            | 165                           | 0.14     | 2000              | EEE1VA470P  | (2)    | 1000             |
|                      | 100                      | 6.3            | 7.7  | D8           | 132                           | 0.12     | 2000              | EEE1VA101XP | (1)    | 900              |
|                      |                          | 8.0            | 10.2 | (F)          | 140                           | 0.14     | 2000              | EEE1VA101UP | (2)    | 500              |
|                      |                          | 10.0           | 10.2 | G            | 210                           | 0.14     | 2000              | EEE1VA101P  | (2)    | 500              |
|                      | 220                      | 8.0            | 10.2 | (F)          | 200                           | 0.14     | 2000              | EEE1VA221UP | (2)    | 500              |
|                      |                          | 10.0           | 10.2 | G            | 310                           | 0.14     | 2000              | EEE1VA221P  | (2)    | 500              |
| 330                  | 10.0                     | 10.2           | G    | 350          | 0.14                          | 2000     | EEE1VA331P        | (2)         | 500    |                  |

\*1: Size code ( ) : Miniaturization product

\*2: Ripple current (120 Hz / +85 °C)

\*3: tanδ (120 Hz / +20 °C)

• Please refer to the page of "Reflow Profile" and "The Taping Dimensions".

• When requesting vibration-proof product, please put the last "V" instead to "P"

### Characteristics list

| Rated voltage (V.DC) | Capacitance (±20 %) (μF) | Case size (mm) |      | Size code *1 | Specification                 |          |                   | Part number | Reflow | min. Packing Qty |
|----------------------|--------------------------|----------------|------|--------------|-------------------------------|----------|-------------------|-------------|--------|------------------|
|                      |                          | φD             | L    |              | Ripple current *2 (mA r.m.s.) | tan δ *3 | Endurance (hours) |             |        | Taping (pcs)     |
| 50                   | 1.0                      | 4.0            | 5.4  | B            | 10                            | 0.12     | 2000              | EEE1HA010SR | (1)    | 2000             |
|                      | 2.2                      | 4.0            | 5.4  | B            | 16                            | 0.12     | 2000              | EEE1HA2R2SR | (1)    | 2000             |
|                      | 3.3                      | 4.0            | 5.4  | B            | 16                            | 0.12     | 2000              | EEE1HA3R3SR | (1)    | 2000             |
|                      | 4.7                      | 4.0            | 5.4  | (B)          | 18                            | 0.14     | 1000              | EEE1HA4R7WR | (1)    | 2000             |
|                      |                          | 5.0            | 5.4  | C            | 23                            | 0.12     | 2000              | EEE1HA4R7SR | (1)    | 1000             |
|                      | 10                       | 5.0            | 5.4  | (C)          | 27                            | 0.14     | 1000              | EEE1HA100WR | (1)    | 1000             |
|                      |                          | 6.3            | 5.4  | D            | 35                            | 0.12     | 2000              | EEE1HA100SP | (1)    | 1000             |
|                      | 22                       | 6.3            | 5.4  | (D)          | 40                            | 0.14     | 1000              | EEE1HA220WP | (1)    | 1000             |
|                      |                          | 8.0            | 6.2  | E            | 120                           | 0.12     | 2000              | EEE1HA220P  | (2)    | 1000             |
|                      | 33                       | 6.3            | 7.7  | D8           | 85                            | 0.12     | 2000              | EEE1HA330XP | (1)    | 900              |
|                      |                          | 8.0            | 6.2  | (E)          | 65                            | 0.12     | 2000              | EEE1HA330UP | (2)    | 1000             |
|                      |                          | 8.0            | 10.2 | F            | 110                           | 0.12     | 2000              | EEE1HA330P  | (2)    | 500              |
|                      | 47                       | 6.3            | 7.7  | D8           | 105                           | 0.12     | 2000              | EEE1HA470XP | (1)    | 900              |
|                      |                          | 8.0            | 10.2 | (F)          | 110                           | 0.12     | 2000              | EEE1HA470UP | (2)    | 500              |
| 10.0                 |                          | 10.2           | G    | 130          | 0.12                          | 2000     | EEE1HA470P        | (2)         | 500    |                  |
| 100                  | 8.0                      | 10.2           | (F)  | 200          | 0.12                          | 2000     | EEE1HA101UP       | (2)         | 500    |                  |
|                      | 10.0                     | 10.2           | G    | 250          | 0.12                          | 2000     | EEE1HA101P        | (2)         | 500    |                  |
| 220                  | 10.0                     | 10.2           | G    | 300          | 0.12                          | 2000     | EEE1HA221P        | (2)         | 500    |                  |
| 63                   | 22                       | 8.0            | 6.2  | (E)          | 40                            | 0.18     | 2000              | EEE1JA220UP | (2)    | 1000             |
|                      |                          | 8.0            | 10.2 | F            | 40                            | 0.18     | 2000              | EEE1JA220P  | (2)    | 500              |
|                      | 33                       | 8.0            | 10.2 | F            | 45                            | 0.18     | 2000              | EEE1JA330P  | (2)    | 500              |
|                      | 47                       | 8.0            | 10.2 | (F)          | 45                            | 0.18     | 2000              | EEE1JA470UP | (2)    | 500              |
|                      |                          | 10.0           | 10.2 | G            | 45                            | 0.18     | 2000              | EEE1JA470P  | (2)    | 500              |
| 100                  | 10.0                     | 10.2           | G    | 60           | 0.18                          | 2000     | EEE1JA101P        | (2)         | 500    |                  |
| 100                  | 4.7                      | 8.0            | 6.2  | (E)          | 50                            | 0.18     | 2000              | EEE2AA4R7UP | (2)    | 1000             |
|                      | 10                       | 8.0            | 6.2  | (E)          | 50                            | 0.18     | 2000              | EEE2AA100UP | (2)    | 1000             |
|                      |                          | 8.0            | 10.2 | F            | 85                            | 0.18     | 2000              | EEE2AA100P  | (2)    | 500              |
|                      | 22                       | 8.0            | 10.2 | (F)          | 55                            | 0.18     | 2000              | EEE2AA220UP | (2)    | 500              |
|                      |                          | 10.0           | 10.2 | G            | 85                            | 0.18     | 2000              | EEE2AA220P  | (2)    | 500              |
| 33                   | 10.0                     | 10.2           | G    | 90           | 0.18                          | 2000     | EEE2AA330P        | (2)         | 500    |                  |

\*1: Size code ( ) : Miniaturization product

\*2: Ripple current (120 Hz / +85 °C)

\*3: tanδ (120 Hz / +20 °C)

- Please refer to the page of "Reflow Profile" and "The Taping Dimensions".
- When requesting vibration-proof product, please put the last "V" instead to "P"

### Characteristics list

| Rated voltage (V.DC) | Capacitance (±20 %) (μF) | Case size(mm) |     | Size code | Specification                 |          | Part number | Reflow | Min. Packing Qty |
|----------------------|--------------------------|---------------|-----|-----------|-------------------------------|----------|-------------|--------|------------------|
|                      |                          | φD            | L   |           | Ripple current *1 (mA r.m.s.) | tan δ *2 |             |        | Taping (pcs)     |
| 6.3                  | 22                       | 5.0           | 5.4 | C         | 29                            | 0.52     | EEE0JA220NR | (1)    | 1000             |
|                      | 47                       | 6.3           | 5.4 | D         | 46                            | 0.52     | EEE0JA470NP | (1)    | 1000             |
| 10                   | 10                       | 4.0           | 5.4 | B         | 25                            | 0.40     | EEE1AA100NR | (1)    | 2000             |
|                      | 33                       | 6.3           | 5.4 | D         | 43                            | 0.40     | EEE1AA330NP | (1)    | 1000             |
| 16                   | 4.7                      | 4.0           | 5.4 | B         | 20                            | 0.32     | EEE1CA4R7NR | (1)    | 2000             |
|                      | 10                       | 5.0           | 5.4 | C         | 25                            | 0.32     | EEE1CA100NR | (1)    | 1000             |
|                      | 22                       | 6.3           | 5.4 | D         | 39                            | 0.32     | EEE1CA220NP | (1)    | 1000             |
| 25                   | 3.3                      | 4.0           | 5.4 | B         | 12                            | 0.28     | EEE1EA3R3NR | (1)    | 2000             |
|                      | 4.7                      | 5.0           | 5.4 | C         | 21                            | 0.28     | EEE1EA4R7NR | (1)    | 1000             |
|                      | 10                       | 6.3           | 5.4 | D         | 28                            | 0.28     | EEE1EA100NP | (1)    | 1000             |
| 35                   | 2.2                      | 4.0           | 5.4 | B         | 12                            | 0.24     | EEE1VA2R2NR | (1)    | 2000             |
|                      | 4.7                      | 5.0           | 5.4 | C         | 22                            | 0.24     | EEE1VA4R7NR | (1)    | 1000             |
|                      | 10                       | 6.3           | 5.4 | D         | 30                            | 0.24     | EEE1VA100NP | (1)    | 1000             |
| 50                   | 1.0                      | 4.0           | 5.4 | B         | 10                            | 0.24     | EEE1HA010NR | (1)    | 2000             |
|                      | 2.2                      | 5.0           | 5.4 | C         | 16                            | 0.24     | EEE1HA2R2NR | (1)    | 1000             |
|                      | 3.3                      | 5.0           | 5.4 | C         | 21                            | 0.24     | EEENZ1H3R3R | (1)    | 1000             |
|                      | 4.7                      | 6.3           | 5.4 | D         | 31                            | 0.24     | EEE1HA4R7NP | (1)    | 1000             |

\*1: Ripple current (120 Hz / +85 °C)

\*2: tanδ (120 Hz / +20 °C)

- Please refer to the page of "Reflow Profile" and "The Taping Dimensions".
- When requesting vibration-proof product, please put the last "V" instead to "P"