

**RSS/RSA/RSB**High Capacitance  
(φ6.3)

For SMD



High Ripple Current



Low Impedance



For High Frequency



Anti-Solvent Feature

**FPCAP**

- Low ESR, High Capacitance, High ripple current.
- Load life of 2000 hours at 105°C.
- SMD type : Lead free reflow soldering condition at 260°C peak correspondence.
- Compliant to the RoHS directive (2011/65/EU).

**Specifications**

| Item                          | Performance Characteristics                                                                      |                                                   |
|-------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Category Temperature Range    | -55 to +105°C                                                                                    |                                                   |
| Rated Voltage Range           | 2.5 to 35V                                                                                       |                                                   |
| Rated Capacitance Range       | 10 to 560μF                                                                                      |                                                   |
| Capacitance Tolerance         | ±20% at 120Hz, 20°C                                                                              |                                                   |
| Tangent of loss angle (tan δ) | Less than or equal to the specified value at 120Hz, 20°C                                         |                                                   |
| ESR (*1)                      | Less than or equal to the specified value at 100kHz, 20°C                                        |                                                   |
| Leakage Current (*2)          | Less than or equal to the specified value. After 2 minutes' application of rated voltage at 20°C |                                                   |
| Endurance                     | Test condition                                                                                   | 105°C, rated voltage 2000Hrs.                     |
|                               | Capacitance change                                                                               | Within ±20% of initial value before test          |
|                               | tan δ                                                                                            | 150% or less than the initial specified value     |
|                               | ESR(*1)                                                                                          | 150% or less than the initial specified value     |
|                               | Leakage current (*2)                                                                             | Less than or equal to the initial specified value |

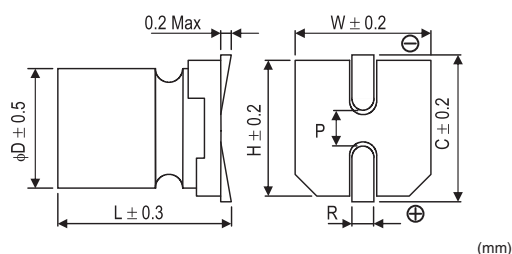
※1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.

※2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

**Size List (ESR)**

[Upper value : φD×L(mm), Lower value : ESR(mΩ)]

| Cap [μF] | R.V.(V) |     | S.V.(V) |     | series |     | 2.5 |     | 4.0 |     | 6.3 |     | 10  |     | 16  |     | 25  |     | 35  |     |
|----------|---------|-----|---------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|          | RSS     | RSA | RSB     | RSA | RSB    | RSS | RSA | RSB | RSA | RSB | RSA | RSB | RSA | RSB | RSA | RSB | RSS | RSA | RSS | RSB |
| 10       |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 22       |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 27       |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 47       |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 56       |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 68       |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100      |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 120      |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 180      |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 220      |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 270      |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 330      |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 390      |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 470      |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 560      |         |     |         |     |        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |



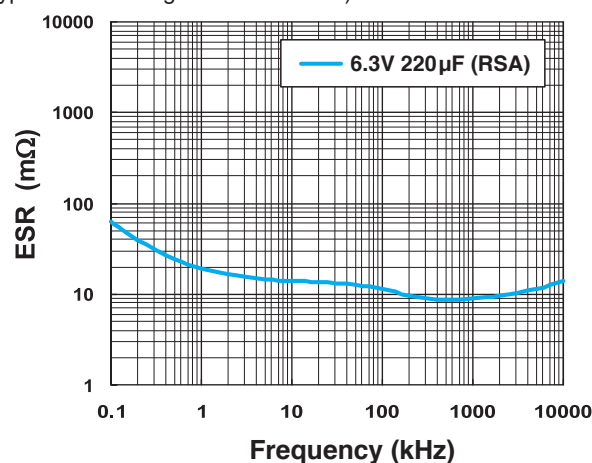
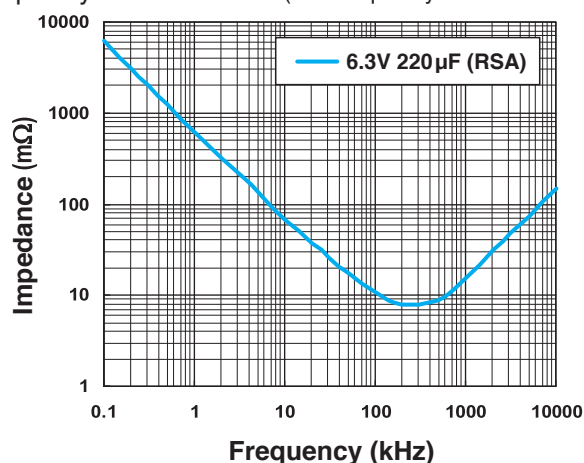
| φD×L    | W   | H   | C   | R          | P   |
|---------|-----|-----|-----|------------|-----|
| 6.3×5.7 | 6.5 | 6.5 | 7.2 | 0.5 to 0.9 | 2.1 |
| 6.3×7.7 | 6.5 | 6.5 | 7.2 | 0.5 to 0.9 | 2.1 |

## RSS / RSA / RSB

## ■ Standard Ratings

| Rated Voltage (V) (code) | Surge Voltage (V) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA, 2min.) | ESR (mΩ, 100kHz) | Rated Ripple Current (mA <sub>rms</sub> ) | NICHICON       | FPCAP            |
|--------------------------|-------------------|------------------------|---------------------|-------|-----------------------------|------------------|-------------------------------------------|----------------|------------------|
| 2.5 (0E)                 | 2.8               | 330                    | 6.3×5.7             | 0.12  | 700                         | 14               | 3160                                      | RSA0E331MCN1GS | FP-2R5ME331M-SAR |
|                          |                   | 390                    | 6.3×5.7             | 0.12  | 700                         | 14               | 3160                                      | RSA0E391MCN1GS | FP-2R5ME391M-SAR |
|                          |                   | 390                    | 6.3×5.7             | 0.12  | 700                         | 10               | 3650                                      | RSB0E391MCN1GS | FP-2R5ME391M-SBR |
|                          |                   | 470                    | 6.3×5.7             | 0.12  | 700                         | 13               | 3600                                      | RSA0E471MCN1GS | FP-2R5ME471M-SAR |
|                          |                   | 560                    | 6.3×5.7             | 0.12  | 700                         | 25               | 2500                                      | RSS0E561MCN1GS | FP-2R5ME561M-SSR |
|                          |                   | 560                    | 6.3×5.7             | 0.12  | 700                         | 13               | 3600                                      | RSA0E561MCN1GS | FP-2R5ME561M-SAR |
|                          |                   | 560                    | 6.3×5.7             | 0.12  | 700                         | 10               | 3800                                      | RSB0E561MCN1GS | FP-2R5ME561M-SBR |
| 4.0 (0G)                 | 4.6               | 330                    | 6.3×5.7             | 0.12  | 700                         | 14               | 3160                                      | RSA0G331MCN1GS | FP-4R0ME331M-SAR |
|                          |                   | 330                    | 6.3×5.7             | 0.12  | 700                         | 11               | 3700                                      | RSB0G331MCN1GS | FP-4R0ME331M-SBR |
|                          |                   | 390                    | 6.3×5.7             | 0.12  | 700                         | 14               | 3160                                      | RSA0G391MCN1GS | FP-4R0ME391M-SAR |
| 6.3 (0J)                 | 7.2               | 100                    | 6.3×5.7             | 0.12  | 700                         | 25               | 2500                                      | RSS0J101MCN1GS | FP-6R3ME101M-SSR |
|                          |                   | 220                    | 6.3×5.7             | 0.12  | 700                         | 25               | 2500                                      | RSS0J221MCN1GS | FP-6R3ME221M-SSR |
|                          |                   | 220                    | 6.3×5.7             | 0.12  | 700                         | 15               | 3160                                      | RSA0J221MCN1GS | FP-6R3ME221M-SAR |
|                          |                   | 220                    | 6.3×5.7             | 0.12  | 700                         | 12               | 3500                                      | RSB0J221MCN1GS | FP-6R3ME221M-SBR |
|                          |                   | 270                    | 6.3×5.7             | 0.12  | 700                         | 14               | 3160                                      | RSA0J271MCN1GS | FP-6R3ME271M-SAR |
|                          |                   | 330                    | 6.3×5.7             | 0.12  | 700                         | 25               | 2500                                      | RSS0J331MCN1GS | FP-6R3ME331M-SSR |
|                          |                   | 330                    | 6.3×5.7             | 0.12  | 700                         | 14               | 3160                                      | RSA0J331MCN1GS | FP-6R3ME331M-SAR |
| 10 (1A)                  | 11.5              | 120                    | 6.3×5.7             | 0.12  | 700                         | 18               | 2900                                      | RSA1A121MCN1GS | FP-010ME121M-SAR |
| 16 (1C)                  | 18.4              | 100                    | 6.3×5.7             | 0.12  | 700                         | 24               | 2490                                      | RSS1C101MCN1GS | FP-016ME101M-SSR |
|                          |                   | 100                    | 6.3×7.7             | 0.12  | 700                         | 24               | 2700                                      | RSA1C101MCN1GS | FP-016ME101M-SAR |
|                          |                   | 180                    | 6.3×5.7             | 0.12  | 576                         | 22               | 3300                                      | RSA1C181MCN1GS | FP-016ME181M-SAR |
| 25 (1E)                  | 28.7              | 10                     | 6.3×5.7             | 0.12  | 100                         | 60               | 1700                                      | RSS1E100MCN1GS | FP-025ME100M-SSR |
|                          |                   | 22                     | 6.3×5.7             | 0.12  | 110                         | 40               | 2100                                      | RSS1E220MCN1GS | FP-025ME220M-SSR |
|                          |                   | 27                     | 6.3×5.7             | 0.12  | 135                         | 40               | 2600                                      | RSS1E270MCN1GS | FP-025ME270M-SSR |
|                          |                   | 47                     | 6.3×5.7             | 0.12  | 235                         | 30               | 2800                                      | RSS1E470MCN1GS | FP-025ME470M-SSR |
|                          |                   | 56                     | 6.3×5.7             | 0.12  | 280                         | 30               | 2800                                      | RSS1E560MCN1GS | FP-025ME560M-SSR |
|                          |                   | 68                     | 6.3×5.7             | 0.12  | 340                         | 30               | 2800                                      | RSS1E680MCN1GS | FP-025ME680M-SSR |
| 35 (1V)                  | 40.2              | 10                     | 6.3×5.7             | 0.12  | 100                         | 60               | 1700                                      | RSS1V100MCN1GS | FP-035ME100M-SSR |

## ■ Frequency Characteristics (The frequency characteristics are typical and not a guaranteed value.)



- Taping specifications are given in page 28.
- Recommended land size, soldering by reflow are given in page 25.
- Please refer to page 3 for the minimum order quantity.