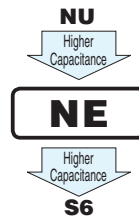
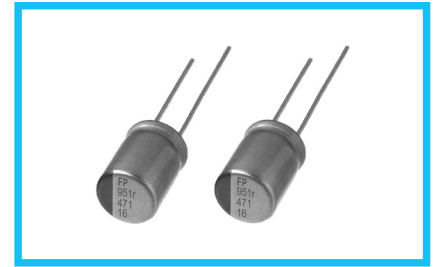


## NE High Capacitance series

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



## FPCAP



### Specifications

| Item                          | Performance Characteristics                                                                      |                                                   |
|-------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Category Temperature Range    | -55 to +105°C                                                                                    |                                                   |
| Rated Voltage Range           | 2.5 to 16V                                                                                       |                                                   |
| Rated Capacitance Range       | 100 to 1200μF                                                                                    |                                                   |
| 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 |

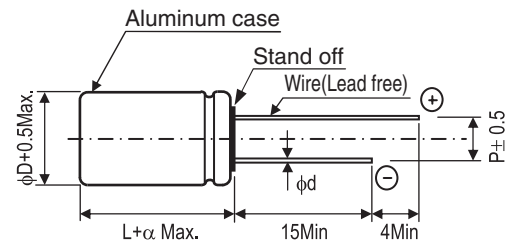
※1 ESR should be measured at both of the terminal ends closest to the capacitor body.

※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

[φD×L(mm)]

| Cap [μF] | R.V.(V) | 2.5 | 6.3 | 10     | 16      |
|----------|---------|-----|-----|--------|---------|
|          | S.V.(V) | 2.8 | 7.2 | 11.5   | 18.4    |
| 100      |         |     |     |        | 5×10    |
| 220      |         |     |     | 6.3×10 |         |
| 270      |         |     | 5×8 |        |         |
| 470      |         |     |     |        | 8×11.5  |
| 680      | 8×6     |     |     |        |         |
| 820      |         |     |     |        | 10×12.5 |
| 1000     |         |     |     |        | 10×12.5 |
| 1200     |         |     | 8×9 |        |         |



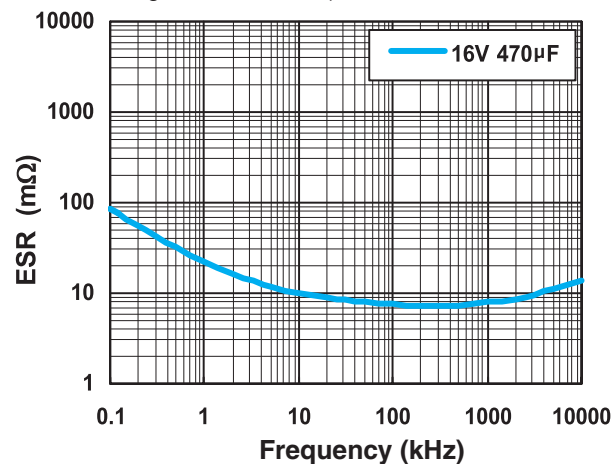
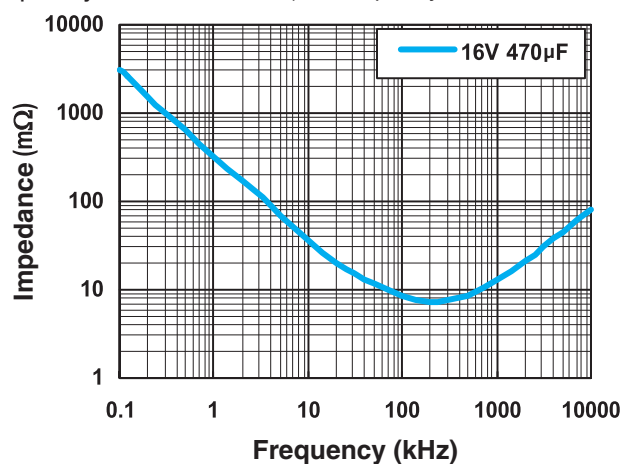
| φD×L    | φd  | P   | α   |
|---------|-----|-----|-----|
| 5×8     | 0.5 | 2.0 | 1.0 |
| 5×10    | 0.5 | 2.0 | 1.0 |
| 6.3×10  | 0.5 | 2.5 | 1.0 |
| 8×6     | 0.6 | 3.5 | 1.0 |
| 8×9     | 0.6 | 3.5 | 1.0 |
| 8×11.5  | 0.6 | 3.5 | 1.5 |
| 10×12.5 | 0.6 | 5.0 | 1.5 |

## NE series

## ■ Standard Ratings

| Rated Voltage<br>(V)<br>(code) | Surge<br>Voltage<br>(V) | Rated<br>Capacitance<br>( $\mu$ F) | Case Size<br>$\phi$ D×L (mm) | $\tan \delta$ | Leakage<br>Current<br>( $\mu$ A, 2min.) | ESR<br>(m $\Omega$ , 100kHz) | Rated Ripple<br>Current<br>(mA <sub>rms</sub> ) | NICHICON       | FPCAP             |
|--------------------------------|-------------------------|------------------------------------|------------------------------|---------------|-----------------------------------------|------------------------------|-------------------------------------------------|----------------|-------------------|
| 2.5<br>(0E)                    | 2.8                     | 680                                | 8×6                          | 0.10          | 500                                     | 8                            | 4900                                            | RNE0E681MDN1□□ | FP-2R5RE681M-NE□□ |
| 6.3<br>(0J)                    | 7.2                     | 270                                | 5×8                          | 0.10          | 500                                     | 12                           | 3600                                            | RNE0J271MDS1□□ | FP-6R3RE271M-NE□□ |
|                                |                         | 1200                               | 8×9                          | 0.08          | 1512                                    | 10                           | 5700                                            | RNE0J122MDN1□□ | FP-6R3RE122M-NE□□ |
| 10<br>(1A)                     | 11.5                    | 220                                | 6.3×10                       | 0.08          | 440                                     | 30                           | 2500                                            | RNE1A221MDS1□□ | FP-010RE221M-NE□□ |
| 16<br>(1C)                     | 18.4                    | 100                                | 5×10                         | 0.08          | 320                                     | 35                           | 2300                                            | RNE1C101MDS1□□ | FP-016RE101M-NE□□ |
|                                |                         | 470                                | 8×11.5                       | 0.08          | 1504                                    | 10                           | 5400                                            | RNE1C471MDN1□□ | FP-016RE471M-NE□□ |
|                                |                         | 820                                | 10×12.5                      | 0.08          | 2624                                    | 11                           | 5600                                            | RNE1C821MDN1□□ | FP-016RE821M-NE□□ |
|                                |                         | 1000                               | 10×12.5                      | 0.08          | 3200                                    | 10                           | 6100                                            | RNE1C102MDN1□□ | FP-016RE102M-NE□□ |

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



- Taping specifications are given in page 26, 27.
- Please refer to page 3 for the minimum order quantity.