

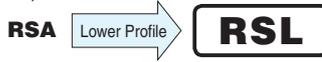
RSL

Low Profile ($\phi 6.3$)



FPCAP

- Low ESR, High Capacitance, High ripple current.
- Low Profile (Height 4.2mm).
- 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, (EU)2015/863).



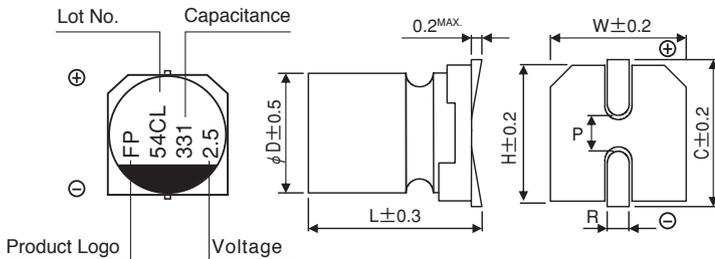
■ Specifications

| Item | Performance Characteristics | |
|---------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Category Temperature Range | -55 to +105°C | |
| Rated Voltage Range | 2.5 to 25V | |
| Rated Capacitance Range | 15 to 330 μ F | |
| Capacitance Tolerance | $\pm 20\%$ 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 $\pm 20\%$ 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.

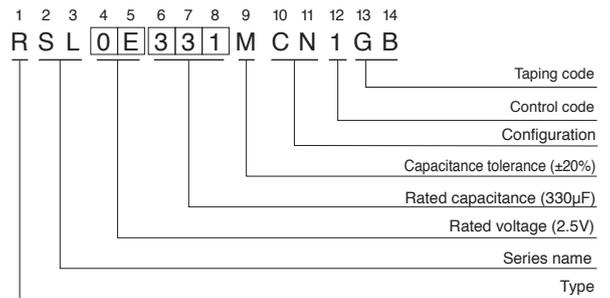
※2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

■ Dimensions



| (mm) | | | | | |
|-------------------|-----|-----|-----|------------|-----|
| $\phi D \times L$ | W | H | C | R | P |
| 6.3 \times 4.2 | 6.5 | 6.5 | 7.2 | 0.5 to 0.9 | 2.1 |

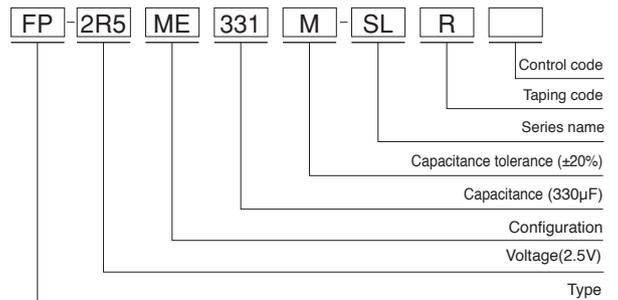
Type numbering system (Example : 2.5V 330 μ F)
Nichicon part number



● Frequency coefficient of rated ripple current

| | | | | | |
|-------------|--------|-------|--------|---------|---------|
| Frequency | 120 Hz | 1 kHz | 10 kHz | 100 kHz | 300 kHz |
| Coefficient | 0.10 | 0.45 | 0.50 | 1.00 | 1.00 |

FPCAP part number

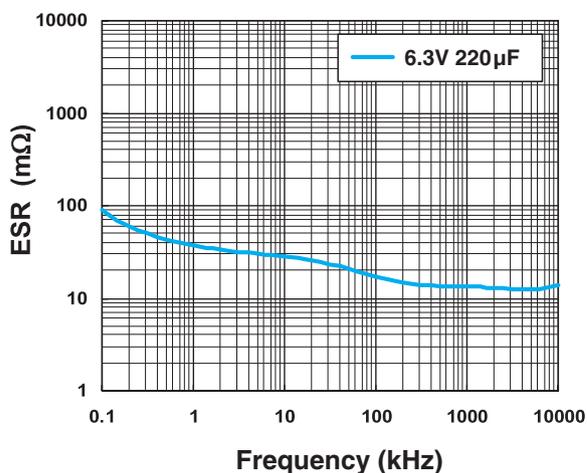
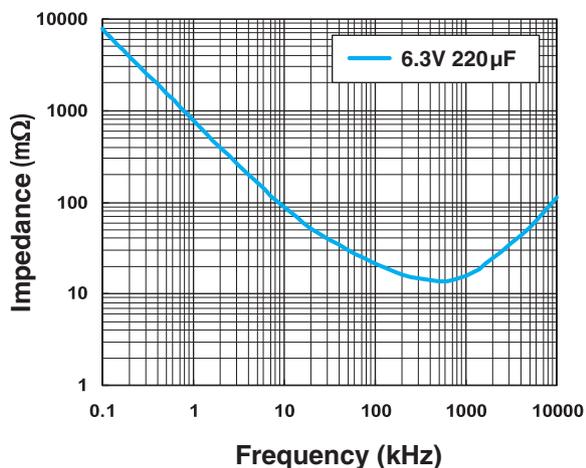


RSL

■ Dimensions

| Rated Voltage (V) (code) | Surge Voltage (V) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA) (at 20°C after 2 minutes) | ESR (mΩ) (20°C/100kHz) | Rated Ripple Current (mA rms) (105°C/100kHz) | NICHICON | FPCAP |
|--------------------------|-------------------|------------------------|---------------------|-------|------------------------------------------------|------------------------|----------------------------------------------|----------------|------------------|
| 2.5 (0E) | 2.8 | 100 | 6.3×4.2 | 0.12 | 300 | 16 | 3500 | RSL0E101MCN1GB | FP-2R5ME101M-SLR |
| | | 220 | 6.3×4.2 | 0.12 | 300 | 16 | 3500 | RSL0E221MCN1GB | FP-2R5ME221M-SLR |
| | | 330 | 6.3×4.2 | 0.12 | 413 | 16 | 3500 | RSL0E331MCN1GB | FP-2R5ME331M-SLR |
| 6.3 (0J) | 7.2 | 100 | 6.3×4.2 | 0.12 | 315 | 18 | 3200 | RSL0J101MCN1GB | FP-6R3ME101M-SLR |
| | | 150 | 6.3×4.2 | 0.12 | 473 | 18 | 3200 | RSL0J151MCN1GB | FP-6R3ME151M-SLR |
| | | 220 | 6.3×4.2 | 0.12 | 693 | 18 | 3200 | RSL0J221MCN1GB | FP-6R3ME221M-SLR |
| 10 (1A) | 11.5 | 100 | 6.3×4.2 | 0.12 | 500 | 25 | 2500 | RSL1A101MCN1GB | FP-010ME101M-SLR |
| 16 (1C) | 18.4 | 15 | 6.3×4.2 | 0.12 | 300 | 45 | 1900 | RSL1C150MCN1GB | FP-016ME150M-SLR |
| 25 (1E) | 28.7 | 15 | 6.3×4.2 | 0.12 | 100 | 55 | 1700 | RSL1E150MCN1GB | FP-025ME150M-SLR |

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



- Taping specifications are given in page 25.
- Recommended land size, soldering by reflow are given in page 22.
- Please refer to page 3 for the minimum order quantity.