

FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

SL series

| | | |
|-------------------|-----------|-----------------|
| Low Profile | 4.5mmMax | φ6.3 |
| Large Capacitance | Lead-free | RoHS Compliance |

● Features

By using Functional Polymer cathode, Frequency & Temp. characteristics are greatly improved.

- Low ESR at a high frequency range.
- High ripple current capability.
- Low profile type. (Height : 4.5mmMax.)

● Applications

- Switching Power Supply and DC/DC Converter.
- Back up Power Supplies of CPU(VRM etc.)
- Miniature high Power Supply.

● Environmental Correspondence

Corresponding to Lead-free, RoHS compliance and Halogen-free.

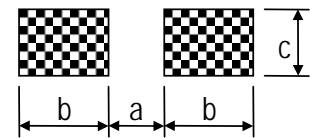
- The Lead-free of terminal plating (Sn)



● Specifications

| Items | Characteristic | |
|-----------------------|-----------------------------|---|
| | SL | |
| Operating temp. range | -55 to +105°C | |
| Rated voltage range | 2.5 to 25V-dc | |
| Capacitance range | 15 to 330μF | |
| Capacitance tolerance | ±20% (M) | |
| Endurance | Test condition | 105°C, rated voltage 2000Hrs. |
| | Capacitance | Within ±20% of initial value before test |
| | Leakage current | Not to exceed the initial specified value |
| | ESR | Not to exceed 150% of initial specified value |
| | tan δ | Not to exceed 150% of initial specified value |
| Failure Rate | 0.5% / 1000Hrs. Max (60%CL) | |

● Recommended land pattern



[Unit: mm]

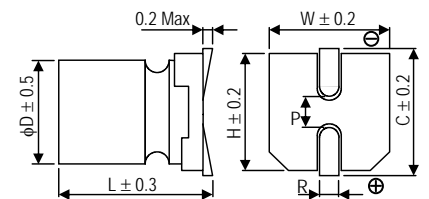
| φD | a | b | c |
|-----|-----|-----|-----|
| 6.3 | 2.1 | 3.5 | 1.6 |

● Size (ESR) List

[φD×L (mΩ)]

| Cap. [μF] | R.V. (S.V.) [M] | | | |
|-----------|-----------------|--------------|--------------|--------------|
| | 2.5 (2.8) | 6.3 (7.2) | 16 (18.4) | 25 (28.7) |
| 15 | | | 6.3×4.2 (45) | 6.3×4.2 (55) |
| 100 | 6.3×4.2 (16) | 6.3×4.2 (18) | | |
| 150 | | 6.3×4.2 (18) | | |
| 220 | 6.3×4.2 (16) | 6.3×4.2 (18) | | |
| 330 | 6.3×4.2 (16) | | | |

● Dimensions



[Unit: mm]

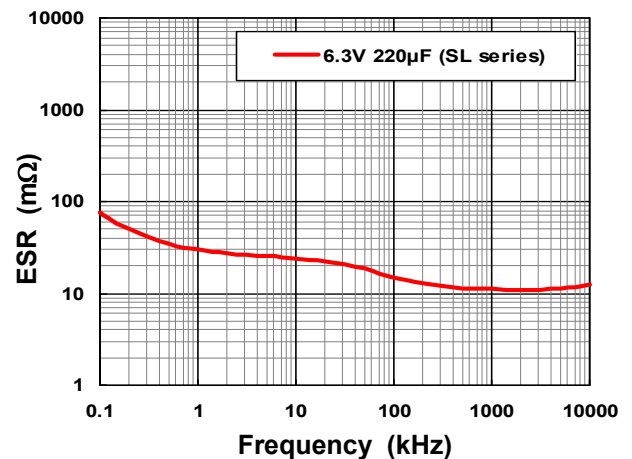
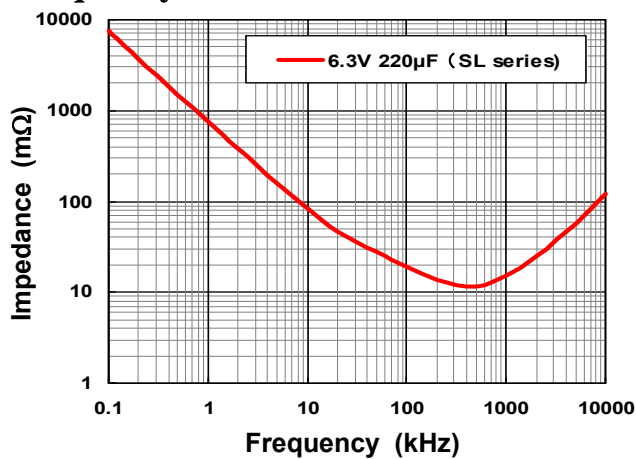
| φD×L | W | H | C | R | P |
|---------|-----|-----|-----|------------|-----|
| 6.3×4.2 | 6.5 | 6.5 | 7.2 | 0.5 to 0.9 | 2.1 |

● Part number & Specifications

| Rated Voltage (V) | Rated Capacitance (μF, 120Hz) | Part Number | | Leakage Current * (μA, 2 min) | tanδ (120Hz) | ESR (mΩ, 100kHz) | Rated Ripple Current (mA, r.m.s.) | Case Size φD×L(mm) |
|-------------------|-------------------------------|----------------|------------------|-------------------------------|--------------|------------------|-----------------------------------|--------------------|
| | | NICHICON | FPCAP | | | | | |
| 2.5 | 100 | RSL0E101MCN1GB | FP-2R5ME101M-SLR | 300 | 0.12 | 16 | 3500 | 6.3 × 4.2 |
| | 220 | RSL0E221MCN1GB | FP-2R5ME221M-SLR | 300 | 0.12 | 16 | 3500 | 6.3 × 4.2 |
| | 330 | RSL0E331MCN1GB | FP-2R5ME331M-SLR | 413 | 0.12 | 16 | 3500 | 6.3 × 4.2 |
| 6.3 | 100 | RSL0J101MCN1GB | FP-6R3ME101M-SLR | 315 | 0.12 | 18 | 3200 | 6.3 × 4.2 |
| | 150 | RSL0J151MCN1GB | FP-6R3ME151M-SLR | 473 | 0.12 | 18 | 3200 | 6.3 × 4.2 |
| | 220 | RSL0J221MCN1GB | FP-6R3ME221M-SLR | 693 | 0.12 | 18 | 3200 | 6.3 × 4.2 |
| 16 | 15 | RSL1C150MCN1GB | FP-016ME150M-SLR | 300 | 0.12 | 45 | 1900 | 6.3 × 4.2 |
| 25 | 15 | RSL1E150MCN1GB | FP-025ME150M-SLR | 100 | 0.12 | 55 | 1700 | 6.3 × 4.2 |

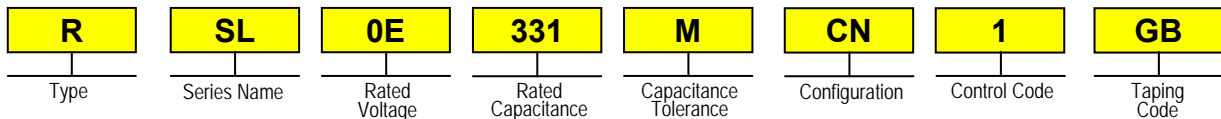
* In case of some doubt about measured values, measure after applying rated voltage for 120 minutes at 105°C.

● Frequency Characteristics



● Part Number (EX) 2.5V, 330μF, SL series

Nichicon P/N



FPCAP P/N

