

# FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

## SL & SH series

### 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. & 5mmMax.)

### Applications

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

### Environmental Correspondence

- Any environmental hazardous substances are not used.
- The lead free of terminal plating (Sn 100%)

### Specifications

| Items                 | Characteristic<br>SL & SH   |   |
|-----------------------|-----------------------------|---|
| Operating temp. range | -55 to +105°C               |   |
| Rated voltage range   | 2.5 to 16V-dc               |   |
| Capacitance range     | 15 to 390μF                 |   |
| 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) |   |

### Size (ESR) List

| R.V. (S.V.)<br>Cap. [μF] | [φD×L (mΩ)]     |                 |                 |                 |                 |    |
|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----|
|                          | 2.5<br>(2.8)    |                 | 6.3<br>(7.2)    |                 | 16<br>(18.4)    |    |
|                          | SL              | SH              | SL              | SH              | SL              | SH |
| 15                       |                 |                 |                 |                 | 6.3x4.2<br>(45) |    |
| 100                      | 6.3x4.2<br>(16) |                 | 6.3x4.2<br>(18) |                 |                 |    |
| 150                      |                 |                 | 6.3x4.2<br>(18) |                 |                 |    |
| 220                      | 6.3x4.2<br>(16) |                 | 6.3x4.2<br>(18) |                 |                 |    |
| 270                      |                 |                 |                 | 6.3x4.7<br>(20) |                 |    |
| 330                      | 6.3x4.2<br>(16) |                 |                 |                 |                 |    |
| 390                      |                 | 6.3x4.7<br>(20) |                 |                 |                 |    |

Low Profile

4.5mmMax  
5.0mmMax

φ6.3

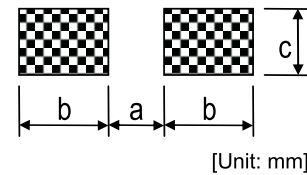
Large Capacitance

Lead-free

RoHS Compliance

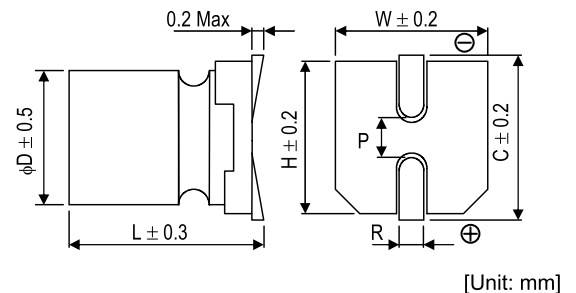


### Recommended land pattern



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

### Dimensions



| φD×L    | W   | H   | C   | R          | P   |
|---------|-----|-----|-----|------------|-----|
| 6.3×4.2 | 6.5 | 6.5 | 7.2 | 0.5 to 0.9 | 2.1 |
| 6.3×4.7 | 6.5 | 6.5 | 7.2 | 0.5 to 0.9 | 2.1 |

## ● Part number & Specifications

| Rated Voltage<br>(V) | Rated Capacitance<br>( $\mu$ F, 120Hz) | Part Number    |                  | Leakage Current *<br>( $\mu$ A, 2 min) | tan $\delta$<br>(120Hz) | ESR<br>(m $\Omega$ , 100kHz) | Rated Ripple Current<br>(mA, r.m.s.) | Case Size<br>$\phi$ D $\times$ L(mm) |
|----------------------|--|----------------|------------------|--|-------------------------|------------------------------|--------------------------------------|--------------------------------------|
|                      |  | NICHICON       | FPCAP            |  |                         |                              |                                      |                                      |
| 2.5                  | 100                                    | RSL0E101MCN1GB | FP-2R5ME101M-SLR | 300                                    | 0.12                    | 16                           | 3500                                 | 6.3 $\times$ 4.2                     |
|                      | 220                                    | RSL0E221MCN1GB | FP-2R5ME221M-SLR | 300                                    | 0.12                    | 16                           | 3500                                 | 6.3 $\times$ 4.2                     |
|                      | 330                                    | RSL0E331MCN1GB | FP-2R5ME331M-SLR | 413                                    | 0.12                    | 16                           | 3500                                 | 6.3 $\times$ 4.2                     |
|                      | 390                                    | RSH0E391MCN1GB | FP-2R5ME391M-SHR | 488                                    | 0.12                    | 20                           | 3000                                 | 6.3 $\times$ 4.7                     |
| 6.3                  | 100                                    | RSL0J101MCN1GB | FP-6R3ME101M-SLR | 315                                    | 0.12                    | 18                           | 3200                                 | 6.3 $\times$ 4.2                     |
|                      | 150                                    | RSL0J151MCN1GB | FP-6R3ME151M-SLR | 473                                    | 0.12                    | 18                           | 3200                                 | 6.3 $\times$ 4.2                     |
|                      | 220                                    | RSL0J221MCN1GB | FP-6R3ME221M-SLR | 693                                    | 0.12                    | 18                           | 3200                                 | 6.3 $\times$ 4.2                     |
|                      | 270                                    | RSH0J271MCN1GB | FP-6R3ME271M-SHR | 851                                    | 0.12                    | 20                           | 3000                                 | 6.3 $\times$ 4.7                     |
| 16                   | 15                                     | RSL1C150MCN1GB | FP-016ME150M-SLR | 300                                    | 0.12                    | 45                           | 1900                                 | 6.3 $\times$ 4.2                     |

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

## ● Part Number (EX) 2.5V, 330 $\mu$ F, SL series

|          |             |               |                   |                       |               |              |             |
|----------|-------------|---------------|-------------------|-----------------------|---------------|--------------|-------------|
| <b>R</b> | <b>SL</b>   | <b>0E</b>     | <b>331</b>        | <b>M</b>              | <b>CN</b>     | <b>1</b>     | <b>GB</b>   |
| Type     | Series name | Rated Voltage | Rated Capacitance | Capacitance Tolerance | Configuration | Control code | Taping code |

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