

## Surface Mount Type SXV series



OS-CON

UPGRADE

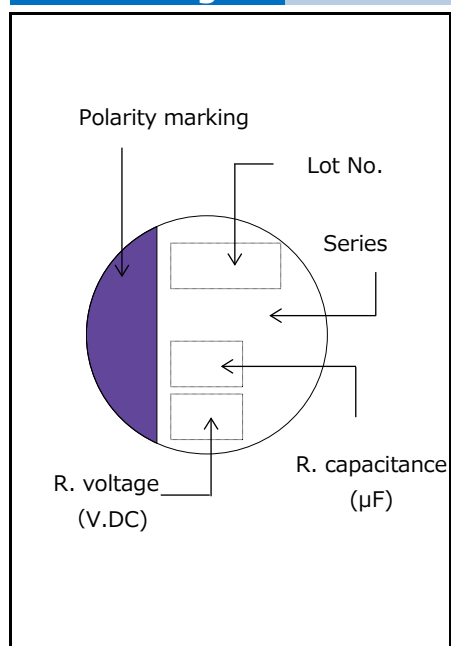
### Features

- Super high voltage (100 V.DC max.)
- RoHS compliance, Halogen free

### Specifications

| Size code                  | E7                                               | F8                                                  | E12            | F12             |
|----------------------------|--------------------------------------------------|-----------------------------------------------------|----------------|-----------------|
| Category temp. range       | -55 °C to +125 °C                                |                                                     |                |                 |
| Rated voltage range        | 63 V.DC to 100 V.DC                              |                                                     |                |                 |
| Nominal cap.range          | 6.8 µF to 18 µF                                  | 15 µF to 39 µF                                      | 15 µF to 56 µF | 18 µF to 100 µF |
| Capacitance tolerance      | ±20 % (120 Hz / +20 °C)                          |                                                     |                |                 |
| DC leakage current         | Please see the attached characteristics list     |                                                     |                |                 |
| Dissipation factor (tan δ) | Please see the attached characteristics list     |                                                     |                |                 |
| Endurance                  | +125 °C 1000 h, rated voltage applied            |                                                     |                |                 |
|                            | Capacitance change                               | Within ±20 % of the initial value                   |                |                 |
|                            | Dissipation factor (tanδ)                        | ≤ 200 % of the initial limit                        |                |                 |
|                            | DC leakage current                               | Within the initial limit                            |                |                 |
|                            | +60 °C, 90 % to 95 %, 1000 h, No-applied voltage |                                                     |                |                 |
|                            | Capacitance change                               | Within ±20 % of the initial value                   |                |                 |
|                            | Dissipation factor (tanδ)                        | ≤ 150 % of the initial limit                        |                |                 |
|                            | DC leakage current                               | Within the initial limit (after voltage processing) |                |                 |

### Marking



### Dimensions (not to scale)

| Unit : mm |        |                            |       |       |       |            |       |
|-----------|--------|----------------------------|-------|-------|-------|------------|-------|
| Size code | φD±0.5 | L <sup>+0.1<br/>-0.4</sup> | W±0.2 | H±0.2 | C±0.2 | R          | P±0.2 |
| E7        | 8.0    | 6.9                        | 8.3   | 8.3   | 9.0   | 0.6 to 0.8 | 3.2   |
| F8        | 10.0   | 7.9                        | 10.3  | 10.3  | 11.0  | 0.6 to 0.8 | 4.6   |
| E12       | 8.0    | 11.9                       | 8.3   | 8.3   | 9.0   | 0.8 to 1.1 | 3.2   |
| F12       | 10.0   | 12.6                       | 10.3  | 10.3  | 11.0  | 0.8 to 1.1 | 4.6   |

# Panasonic Conductive Polymer Aluminum Solid Capacitors

## Characteristics list

| Rated volt.<br>(V.DC) | Rated cap.<br>(±20 %) (μF) | Case size (mm) |      | Size code | Specifications                              |                                                       |                           |                     |                          | Standard (Reel size : φ380) |                           |
|-----------------------|----------------------------|----------------|------|-----------|---------------------------------------------|-------------------------------------------------------|---------------------------|---------------------|--------------------------|-----------------------------|---------------------------|
|                       |                            | φD             | L    |           | Ripple current* <sup>1</sup><br>(mA r.m.s.) | Allowable ripple current* <sup>1</sup><br>(mA r.m.s.) | ESR* <sup>2</sup><br>(mΩ) | tan δ* <sup>3</sup> | LC* <sup>4</sup><br>(μA) | Part number                 | Min. Packaging Q'ty (pcs) |
| 63                    | 18                         | 8.0            | 6.9  | E7        | 340                                         | 1100                                                  | 60                        | 0.12                | 56                       | 63SXV18M                    | 1000                      |
|                       | 33                         | 8.0            | 11.9 | E12       | 930                                         | 2950                                                  | 25                        | 0.12                | 104                      | 63SXV33M                    | 400                       |
|                       | 39                         | 8.0            | 11.9 | E12       | 930                                         | 2950                                                  | 25                        | 0.12                | 122                      | 63SXV39M                    | 400                       |
|                       |                            | 10.0           | 7.9  | F8        | 690                                         | 2190                                                  | 50                        | 0.12                | 122                      | 63SXV39MX                   | 500                       |
|                       | <b>NEW</b> 56              | 8.0            | 11.9 | E12       | 930                                         | 2950                                                  | 25                        | 0.12                | 176                      | 63SXV56M                    | 400                       |
|                       | 68                         | 10.0           | 12.6 | F12       | 1030                                        | 3280                                                  | 25                        | 0.12                | 214                      | 63SXV68M                    | 400                       |
| 80                    | <b>NEW</b> 100             | 10.0           | 12.6 | F12       | 1030                                        | 3280                                                  | 25                        | 0.12                | 315                      | 63SXV100M                   | 400                       |
|                       | 12                         | 8.0            | 6.9  | E7        | 340                                         | 1100                                                  | 60                        | 0.12                | 48                       | 80SXV12M                    | 1000                      |
|                       | 27                         | 8.0            | 11.9 | E12       | 780                                         | 2490                                                  | 35                        | 0.12                | 108                      | 80SXV27M                    | 400                       |
|                       |                            | 10.0           | 7.9  | F8        | 660                                         | 2080                                                  | 55                        | 0.12                | 108                      | 80SXV27MX                   | 500                       |
|                       | <b>NEW</b> 33              | 8.0            | 11.9 | E12       | 780                                         | 2490                                                  | 35                        | 0.12                | 132                      | 80SXV33M                    | 400                       |
|                       | 47                         | 10.0           | 12.6 | F12       | 980                                         | 3100                                                  | 28                        | 0.12                | 980                      | 80SXV47M                    | 400                       |
| 100                   | <b>NEW</b> 56              | 10.0           | 12.6 | F12       | 980                                         | 3100                                                  | 28                        | 0.12                | 224                      | 80SXV56M                    | 400                       |
|                       | 6.8                        | 8.0            | 6.9  | E7        | 340                                         | 1100                                                  | 60                        | 0.12                | 34                       | 100SXV6R8M                  | 1000                      |
|                       | 15                         | 10.0           | 7.9  | F8        | 630                                         | 2000                                                  | 60                        | 0.12                | 75                       | 100SXV15MX                  | 500                       |
|                       |                            | 8.0            | 11.9 | E12       | 730                                         | 2350                                                  | 40                        | 0.12                | 75                       | 100SXV15M                   | 400                       |
|                       | <b>NEW</b> 18              | 10.0           | 12.6 | F12       | 940                                         | 3000                                                  | 30                        | 0.12                | 90                       | 100SXV18M                   | 400                       |
|                       |                            | 8.0            | 11.9 | E12       | 730                                         | 2350                                                  | 40                        | 0.12                | 90                       | 100SXV18MX                  | 400                       |
|                       | 22                         | 10.0           | 12.6 | F12       | 940                                         | 3000                                                  | 30                        | 0.12                | 110                      | 100SXV22M                   | 400                       |
| 100                   | <b>NEW</b> 27              | 10.0           | 12.6 | F12       | 940                                         | 3000                                                  | 30                        | 0.12                | 135                      | 100SXV27M                   | 400                       |

\*1: Ripple current (100 kHz / +105 °C < Tx ≤ +125 °C) / Allowable ripple current (100 kHz / Tx ≤ +105 °C)

\*2: ESR (100 kHz to 300 kHz / +20 °C)

\*3: tan δ (120 Hz / +20 °C)

\*4: After 2 minutes

• Please refer to each page in this catalog for "Reflow conditions" and "Taping specifications".

## Frequency correction factor for ripple current

| Frequency(f) | 120 Hz ≤ f < 1 kHz | 1 kHz ≤ f < 10 kHz | 10 kHz ≤ f < 100 kHz | 100 kHz ≤ f < 500 kHz |
|--------------|--------------------|--------------------|----------------------|-----------------------|
| Coefficient  | 0.05               | 0.3                | 0.7                  | 1                     |

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