

## Surface Mount Type

Series: **SXV**



**OS-CON**

**UPGRADE**

### Features

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

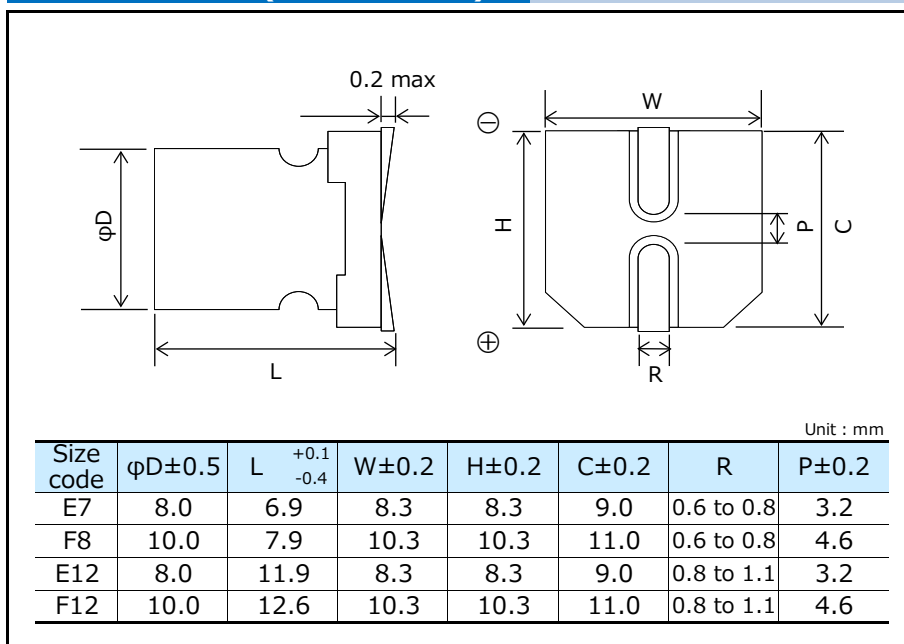
### Specifications

| 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)



# Panasonic Conductive Polymer Aluminum Solid Capacitors

## Characteristics list

| Rated vol. (V.DC) | Rated cap. ( $\pm 20\%$ ) ( $\mu\text{F}$ ) | Case size (mm) |      | Size code | Specifications                           |  |  |                              |                                    | Standard (Reel size : $\phi 380$ ) |                           |     |
|-------------------|---|----------------|------|-----------|--|--|--|------------------------------|------------------------------------|------------------------------------|---------------------------|-----|
|                   |   | $\phi\text{D}$ | L    |           | Ripple current* <sup>1</sup> (mA r.m.s.) | Allowable ripple current* <sup>1</sup> (mA r.m.s.) | ESR* <sup>2</sup> ( $\text{m}\Omega$ ) | $\tan \delta$ * <sup>3</sup> | LC* <sup>4</sup> ( $\mu\text{A}$ ) | 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                       |     |
| <b>NEW</b>        | 100   | 10.0           | 12.6 | F12       | 1030                                     | 3280   | 25                                     | 0.12                         | 315                                | 63SXV100M                          | 400                       |     |
| 80                | 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                       |     |
| <b>NEW</b>        | 56  | 10.0           | 12.6 | F12       | 980                                      | 3100   | 28                                     | 0.12                         | 224                                | 80SXV56M                           | 400                       |     |
| 100               | 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                       |     |
|                   | 18  | 10.0           | 12.6 | F12       | 940                                      | 3000   | 30                                     | 0.12                         | 90                                 | 100SXV18M                          | 400                       |     |
|                   |   | <b>NEW</b>     | 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                       |     |
| <b>NEW</b>        | 27  | 10.0           | 12.6 | F12       | 940                                      | 3000   | 30                                     | 0.12                         | 135                                | 100SXV27M                          | 400                       |     |

\*1: Ripple current (100 kHz /  $+105\text{ }^\circ\text{C} < \text{T}_x \leq +125\text{ }^\circ\text{C}$ ) / Allowable ripple current (100 kHz /  $\text{T}_x \leq +105\text{ }^\circ\text{C}$ )

\*2: ESR (100 kHz to 300 kHz /  $+20\text{ }^\circ\text{C}$ )

\*3:  $\tan \delta$  (120 Hz /  $+20\text{ }^\circ\text{C}$ )

\*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) | $120\text{ Hz} \leq f < 1\text{ kHz}$ | $1\text{ kHz} \leq f < 10\text{ kHz}$ | $10\text{ kHz} \leq f < 100\text{ kHz}$ | $100\text{ kHz} \leq f < 500\text{ kHz}$ |
|--------------|---------------------------------------|---------------------------------------|---|--|
| Coefficient  | 0.05                                  | 0.3                                   | 0.7                                     | 1  |

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**Наши контакты:**

**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331