

Surface Mount Type

Series: **SXV**



OS-CON

UPGRADE

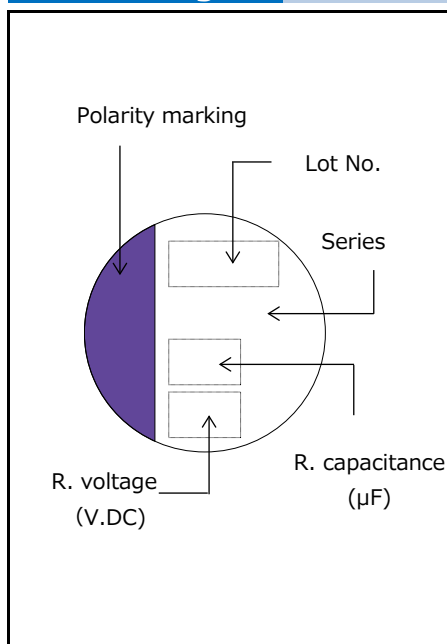
Features

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

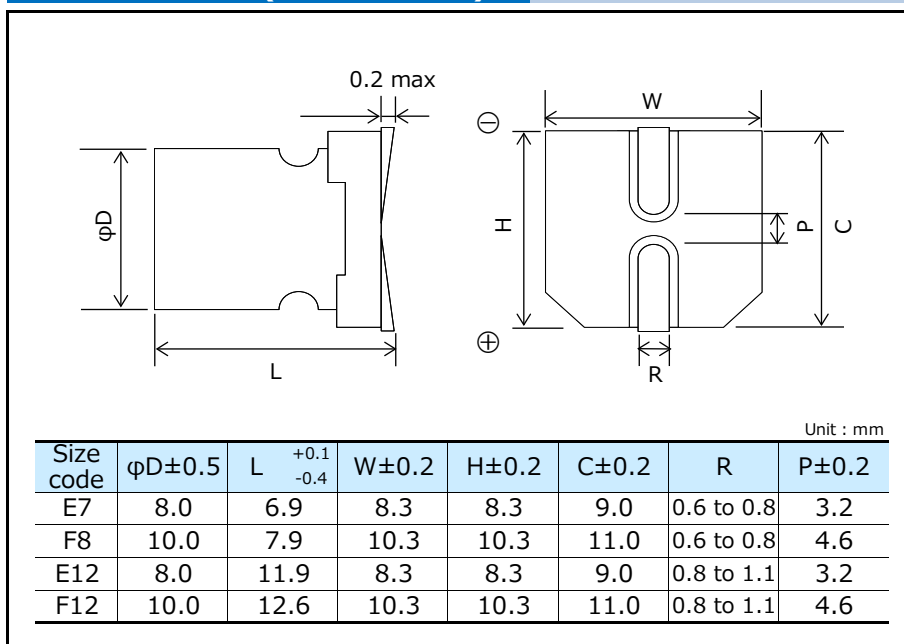
Specifications

| 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. ($\pm 20\%$) (μF) | Case size (mm) | | Size code | Specifications | | | | | Standard (Reel size : $\phi 380$) | | |
|-------------------|---|----------------|------|-----------|--|--|--|------------------------------|------------------------------------|------------------------------------|---------------------------|-----|
| | | ϕD | L | | Ripple current* ¹ (mA r.m.s.) | Allowable ripple current* ¹ (mA r.m.s.) | ESR* ² ($\text{m}\Omega$) | $\tan \delta$ * ³ | LC* ⁴ (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 | |
| | NEW | 56 | 8.0 | 11.9 | E12 | 930 | 2950 | 25 | 0.12 | 176 | 63SXV56M | 400 |
| | NEW | 68 | 10.0 | 12.6 | F12 | 1030 | 3280 | 25 | 0.12 | 214 | 63SXV68M | 400 |
| NEW | 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 | |
| | NEW | 33 | 8.0 | 11.9 | E12 | 780 | 2490 | 35 | 0.12 | 132 | 80SXV33M | 400 |
| | NEW | 47 | 10.0 | 12.6 | F12 | 980 | 3100 | 28 | 0.12 | 980 | 80SXV47M | 400 |
| NEW | 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 | |
| | | NEW | 8.0 | 11.9 | E12 | 730 | 2350 | 40 | 0.12 | 90 | 100SXV18MX | 400 |
| | NEW | 22 | 10.0 | 12.6 | F12 | 940 | 3000 | 30 | 0.12 | 110 | 100SXV22M | 400 |
| NEW | 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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