

Surface Mount Type

SXV series



OS-CON

UPGRADE

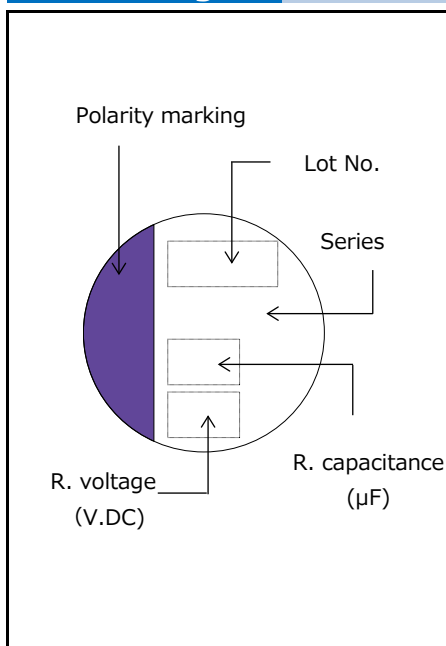
Features

- 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)

Size code	Unit : mm						
	φD±0.5	L ^{+0.1} _{-0.4}	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. (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
	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
	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 18	8.0	11.9	E12	730	2350	40	0.12	90	100SXV18MX
	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 / $+105\text{ }^\circ\text{C} < T_x \leq +125\text{ }^\circ\text{C}$) / Allowable ripple current (100 kHz / $T_x \leq +105\text{ }^\circ\text{C}$)

*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

Guidelines and precautions regarding the technical information and use of our products described in this online catalog.

- If you want to use our products described in this online catalog for applications requiring special qualities or reliability, or for applications where the failure or malfunction of the products may directly jeopardize human life or potentially cause personal injury (e.g. aircraft and aerospace equipment, traffic and transportation equipment, combustion equipment, medical equipment, accident prevention, anti-crime equipment, and/or safety equipment), it is necessary to verify whether the specifications of our products fit to such applications. Please ensure that you will ask and check with our inquiry desk as to whether the specifications of our products fit to such applications use before you use our products.
- The quality and performance of our products as described in this online catalog only apply to our products when used in isolation. Therefore, please ensure you evaluate and verify our products under the specific circumstances in which our products are assembled in your own products and in which our products will actually be used.
- If you use our products in equipment that requires a high degree of reliability, regardless of the application, it is recommended that you set up protection circuits and redundancy circuits in order to ensure safety of your equipment.
- The products and product specifications described in this online catalog are subject to change for improvement without prior notice. Therefore, please be sure to request and confirm the latest product specifications which explain the specifications of our products in detail, before you finalize the design of your applications, purchase, or use our products.
- The technical information in this online catalog provides examples of our products' typical operations and application circuits. We do not guarantee the non-infringement of third party's intellectual property rights and we do not grant any license, right, or interest in our intellectual property.
- If any of our products, product specifications and/or technical information in this online catalog is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially with regard to security and export control, shall be observed.

<Regarding the Certificate of Compliance with the EU RoHS Directive/REACH Regulations>

- The switchover date for compliance with the RoHS Directive/REACH Regulations varies depending on the part number or series of our products.
- When you use the inventory of our products for which it is unclear whether those products are compliant with the RoHS Directive/REACH Regulation, please select "Sales Inquiry" in the website inquiry form and contact us.

We do not take any responsibility for the use of our products outside the scope of the specifications, descriptions, guidelines and precautions described in this online catalog.
