Surface Mount Type

Series: **SXV**

OS-CON

UPGRADE

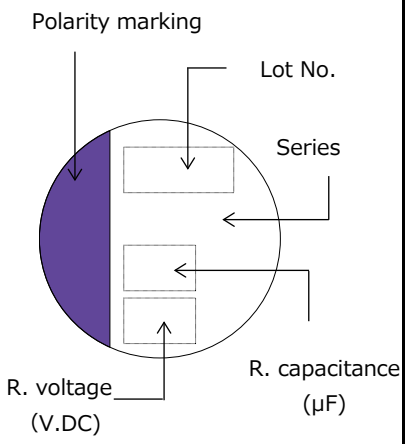
Features

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

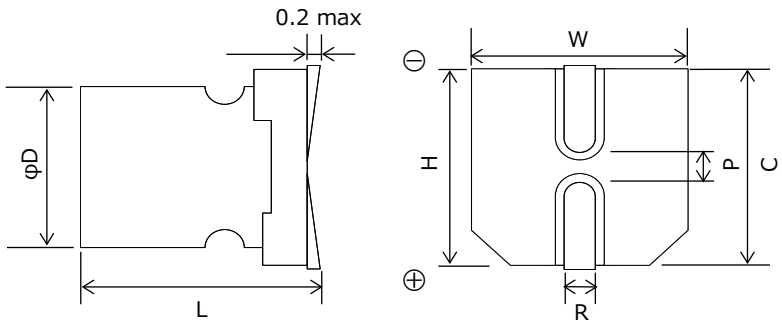
Specifications

Size code	E7	F8	E12	F12
Category temp. range	−55 ℃ to +125 ℃			
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 ℃)			
DC leakage current	Please see the attached characteristics list			
Dissipation factor (tan δ)	Please see the attached characteristics list			
Endurance	+125 ℃, 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 ℃, 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 +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

Characteristics list

Rated vol. (V.DC)	Rated cap. (±20 %) (μF)	Case size (mm) φD	Case size (mm) L	Size code	Specifications: Ripple current *1 (mA r.m.s.)	Specifications: Allowable ripple current *1 (mA r.m.s.)	Specifications: ESR *2 (mΩ)	Specifications: tan δ *3	Specifications: LC *4 (μA)	Standard (Reel size : φ380) Part number	Standard (Reel size : φ380) 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		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
NEW	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 ℃)
*3: tan δ (120 Hz / +20 ℃)
*4: After 2 minutes
・Please refer to each page in this catarog 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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