

Surface Mount Type



Series : **SXV**



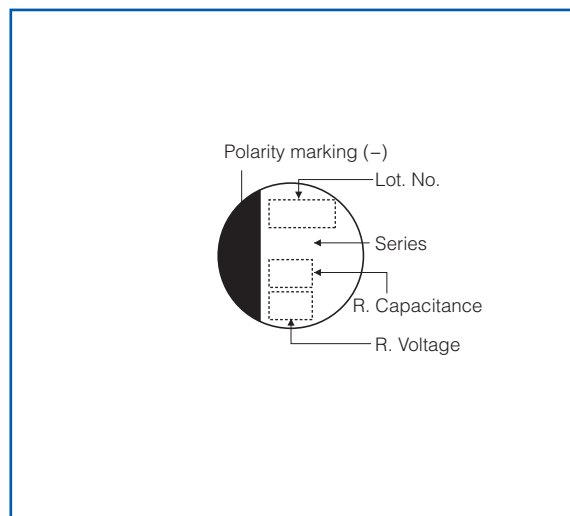
Features

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

Specifications

Size code	E7	F8	E12	F12
Category temperature range	-55 °C to +125 °C			
Rated voltage range	63 V.DC to 100 V.DC			
Rated capacitance range	6.8 μF to 18 μF	15 μF to 39 μF	15 μF to 39 μF	18 μF to 68 μF
Capacitance tolerance	±20 % (120 Hz / + 20 °C)			
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		
	tan δ	≤ 200 % of the initial limit		
	DC leakage current	Within the initial limit		
Damp heat (Steady State)	+60 °C, 90 % to 95 %, 1000 h, No-applied voltage			
	Capacitance change	Within ±20 % of the initial value		
	tan δ	≤ 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

* Externals of figure are the reference.

Characteristics list

Series	Rated voltage (V.DC)	Rated capacitance (μF)	Case size (mm)		Size code	Specifications					Standard (Reel size : φ380)	
			φD	L		Ripple* ¹ current (mAr.m.s.)	Allowable* ¹ ripple current (mAr.m.s.)	ESR* ² (mΩ max.)	tan δ* ³	LC* ⁴ (μA)	Part number	Min. Packaging Q'ty (pcs)
SXV	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
		68	10.0	12.6	F12	1030	3280	25	0.12	214	63SXV68M	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
		47	10.0	12.6	F12	980	3100	28	0.12	188	80SXV47M	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
		22	10.0	12.6		940	3000	30	0.12	110	100SXV22M	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	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