

Conductive Polymer Hybrid Aluminum Electrolytic Capacitors

SVV series

- Low ESR, Anti-vibration, Peak acceleration: 30G
- High Voltage, Long Life.
- 105°C, 10,000hrs.
- RoHS compliant
- For high reliability applications.(Automotive equipment,Base station equipment,etc.)



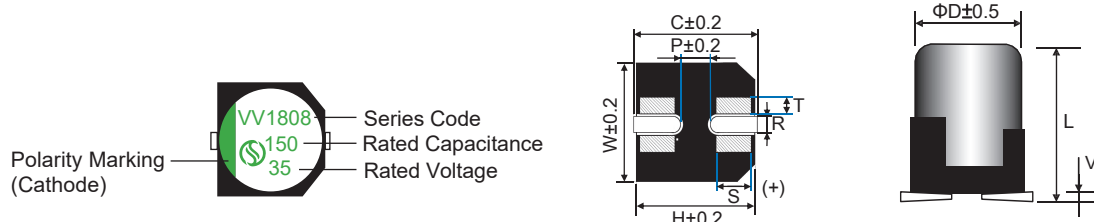
SVV

SPECIFICATIONS

Items	Conditions	Characteristics
Category Temperature Range	—	-55 to +105°C
Rated Voltage Range	—	16 ~ 125V
Capacitance Tolerance	at 20°C,120Hz	±20%(M)
Surge Voltage	at 15 ~ 35°C	Rated voltage × 1.25V
Leakage Current	at 20°C after 2 minutes	$I \leq 0.01CV$ or $3(\mu A)$ Whichever is greater measured,after 2 minutes application of rated working voltage at +20°C. Please see the attached characteristics list
Dissipation Factor (tan δ)	at 20°C,120Hz	Please see the attached characteristics list
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 10,000 hours at 105°C.	Appearance NO significant damage.
		Capacitance change $\leq \pm 30\%$ of the initial value.
		DF (tan δ) $\leq 200\%$ of the initial specified value.
		ESR $\leq 200\%$ of the initial specified value.
		Leakage current \leq The initial specified value.
Damp Heag (Steady State)	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to subjecting them to store at 60°C, 90 to 95% RH for 1,000 hours, without DC applied.	Appearance NO significant damage.
		Capacitance change $\leq \pm 30\%$ of the initial value.
		DF (tan δ) $\leq 200\%$ of the initial specified value.
		ESR $\leq 200\%$ of the initial specified value.
		Leakage current \leq The initial specified value.
Surge Voltage	The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 15~35°C for 30 seconds through aprotective resistor (R = 1 kΩ) and discharge for 5 minutes 30 seconds.	Appearance NO significant damage.
		Capacitance change $\leq \pm 30\%$ of the initial value.
		DF (tan δ) $\leq 200\%$ of the initial specified value.
		ESR $\leq 200\%$ of the initial specified value.
		Leakage current \leq The initial specified value.

※ Note : If any doubt arises, measure the leakage current after following voltage treatment.
Voltage treatmen : DC rated voltage are applied to the capacitors for 120 minutes at 105°C.

MARKING AND DIMENSIONS



(Unit:mm)

Size	D ^{±0.5}	L ^{±0.5}	W ^{±0.2}	H ^{±0.2}	C ^{±0.2}	R	P ^{±0.2}	S ^{±0.2}	T ^{±0.2}	V ^{max}
10×10	10	10.5	10.3	10.3	11.0	1.0to1.4	4.5	0.7	1.6	0.3
10×12	10	12.5	10.3	10.3	11.0	1.0to1.4	4.5	0.7	1.6	0.3

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SVV SERIES STANRD CHARACTERISITICS LIST

Rated voltage (S.V.)	Cap (μF)	Size Code DxL	Leakage current (μA) max.	ESR (mΩ) max. 100k to 300kHz / 20°C	Rated Ripple Current (mA rms) 100kHz / 105°C	D.F. (tanδ) max. 120Hz / 20°C
16 (20)	470	10×10	75	21	2,600	0.16
	560	10×12	90	15	3,000	0.16
25 (32)	270	10×10	68	22	2,500	0.16
	330	10×12	83	16	2,900	0.16
35 (44)	150	10×10	53	23	2,400	0.16
	220	10×12	77	17	2,800	0.16
40 (50)	100	10×10	40	24	2,400	0.16
	120	10×12	48	18	2,700	0.16
50 (63)	56	10x10	28	25	2,300	0.16
	82	10x12	41	19	2,600	0.16
63 (79)	33	10x10	21	30	2,100	0.16
	47	10x10	30	30	2,100	0.16
	56	10x12	35	22	2,400	0.16
80 (100)	12	10x10	10	70	1,600	0.16
	15	10x10	12	70	1,600	0.16
	18	10x12	14	50	1,800	0.16
100 (125)	10	10x10	10	80	1,400	0.16
	12	10x10	12	80	1,400	0.16
	15	10x12	15	60	1,600	0.16
125 (157)	10	10x10	13	90	1,200	0.16

Frequency Coefficient of Permissible Ripple Current

Frequency (Hz)	100 ≦ F < 1K	1K ≦ F < 10K	10K ≦ F < 100K	100K ≦ F
Capacitance (μF)				
4.7 < C ≦ 33	0.05	0.32	0.67	1.00
33 < C	0.10	0.35	0.70	1.00