

SVH series

- Low ESR , Anti-vibration , Peak acceleration: 30G
- High Voltage, Long Life.
- 135°C, 1,000 to 2,000hrs.
- RoHS compliant
- For automotive mouldes and other high temperature applications



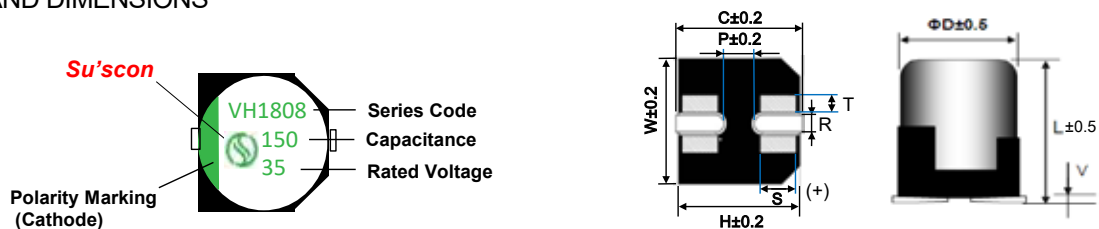
SVH

SPECIFICATIONS

Items	Conditions	Characteristics	
Category Temperature Range	—	-55 to +135°C	
Rated Voltage Range	—	25 ~ 63V	
Capacitance Tolerance	at 20°C, 120Hz	±20%(M)	
Surge Voltage	at 15~35°C	Rated voltage ×1.15V	
Leakage Current	at 20°C after 2 minutes	I ≤ 0.01CV or 3(μA) 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 1,000 to 2,000 hours at 135°C. Φ6.3=1,000hrs, D ≥ Φ8=2,000hrs	Appearance	No significant damage.
		Capacitance change	±30% of the initial value.
		DF (tan δ)	≤200% of the initial specified value.
		ESR	≤200% of the initial specified value.
		Leakage current	≤The initial specified value.
Damp Heat (Steady State)	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to store at 60°C, 90 to 95% RH for 1,000 hours, without DC applied.	Appearance	No significant damage.
		Capacitance change	±30% of the initial value.
		DF (tan δ)	≤200% of the initial specified value.
		ESR	≤200% of the initial specified value.
		Leakage current	≤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 a protective resistor (R=1kΩ) and discharge for 5 minutes 30 seconds	Appearance	No significant damage.
		Capacitance change	±30% of the initial value.
		DF (tan δ)	≤200% of the initial specified value.
		ESR	≤200% of the initial specified value.
		Leakage current	≤The initial specified value.
Standards	IEC 60384-4 (JIS C 5101-4)		

※ Note: If any doubt arises, measure the leakage current after following voltage treatment.
Voltage treatment : DC rated voltage are applied to the capacitors for 120 minutes at 135°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	Vmax
6.3×8.0	6.3	8.0	6.6	6.6	7.3	0.5to0.8	2.1	0.3
8×10.5	8	10.5	8.3	8.3	9.0	1.0to1.4	3.2	0.3
10×10.5	10	10.5	10.3	10.3	11.0	1.0to1.4	4.5	0.3
10×12.5	10	12.5	10.3	10.3	11.0	1.0to1.4	4.5	0.3

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STANDARD RATINGS

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 / 135°C	D.F. (tanδ) max. 120Hz / 20°C
25 (28.8)	68	6.3×8	17	45	750	0.16
	150	8×10.5	38	27	1000	0.16
	270	10×10.5	68	22	1200	0.16
	330	10×12.5	83	16	1350	0.16
35 (40.3)	47	6.3×8	16	60	730	0.16
	100	8×10.5	35	30	1000	0.16
	150	10×10.5	53	23	1100	0.16
	220	10×12.5	77	17	1300	0.16
40 (46.0)	27	6.3×8	11	70	700	0.16
	56	8×10.5	22	32	950	0.16
	100	10×10.5	40	24	1100	0.16
	120	10×12.5	48	18	1300	0.16
50 (57.5)	15	6.3×8	8	80	650	0.16
	33	8×10.5	17	35	900	0.16
	56	10×10.5	28	25	1100	0.16
	82	10×12.5	41	19	1250	0.16
63 (72.5)	10	6.3×8	6	100	550	0.16
	22	8×10.5	14	40	850	0.16
	33	8×10.5	21	40	850	0.16
		10×10.5	21	30	1000	0.16
	47	10×10.5	30	30	1000	0.16
	56	10×12.5	35	22	1100	0.16

Frequency Coefficient of Permissible Ripple Current

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