

SVG series

- Low ESR, Anti-vibration, Peak acceleration: 30G
- High Voltage, Long Life.
- 125°C, 4,000hrs.
- RoHS compliant
- For automotive mouldles and other high temperature applications



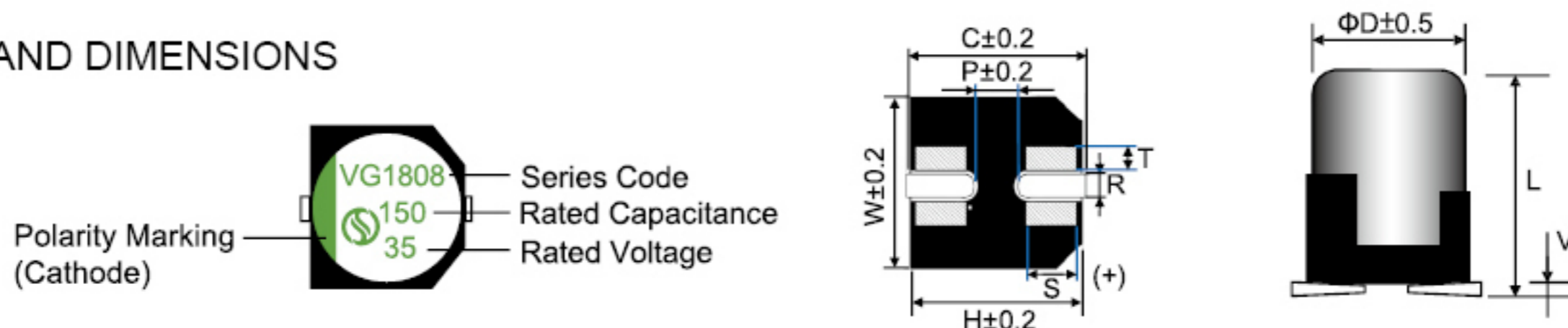
SVG

SPECIFICATIONS

Items	Conditions	Characteristics
Category Temperature Range	—	-55 to +125°C
Rated Voltage Range	—	16 ~ 125V
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	$I \leq 0.01CV$ 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 4,000 hours at 125°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.
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.
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 = 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.
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 = 1 kΩ) and discharge for 5 minutes 30 seconds.	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 125°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}	V ^{max}
6.3×6.0	6.3	6.0	6.6	6.6	7.3	0.5~0.8	2.1	0.3
6.3×8.0	6.3	8.0	6.6	6.6	7.3	0.5~0.8	2.1	0.3
8×10.5	8.0	10.5	8.3	8.3	9.0	1.0~1.4	3.2	0.3
10×10.5	10.0	10.5	10.3	10.3	11.0	1.0~1.4	4.5	0.3
10×12.5	10.0	12.5	10.3	10.3	11.0	1.0~1.4	4.5	0.3

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SVG SERIES STANDARD CHARACTERISTICS 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 / 125°C	D.F. (tanδ) max. 120Hz / 20°C
16 (18.4)	82	6.3×6.0	13	55	970	0.16
	120	6.3×8.0	19	40	1,100	0.16
	270	8×10.5	43	26	1,500	0.16
	470	10×10.5	75	21	2,000	0.16
	560	10×12.5	90	15	2,300	0.16
25 (28.8)	47	6.3×6.0	12	60	890	0.16
	68	6.3×8.0	17	45	1,100	0.16
	150	8×10.5	38	27	1,300	0.16
	270	10×10.5	68	22	1,500	0.16
	330	10×12.5	83	16	1,700	0.16
35 (40.3)	27	6.3×6.0	9	100	760	0.16
	47	6.3×8.0	16	60	900	0.16
	100	8×10.5	35	30	1,200	0.16
	150	10×10.5	53	23	1,400	0.16
	220	10×12.5	77	17	1,700	0.16
40 (46.0)	18	6.3×6.0	7	110	720	0.16
	27	6.3×8.0	11	70	900	0.16
	56	8×10.5	22	32	1,200	0.16
	100	10×10.5	40	24	1,400	0.16
	120	10×12.5	48	18	1,600	0.16
50 (57.5)	10	6.3×6.0	5	120	690	0.16
	15	6.3×8.0	8	80	800	0.16
	33	8×10.5	17	35	1,100	0.16
	56	10×10.5	28	25	1,300	0.16
	82	10×12.5	41	19	1,500	0.16
63 (72.5)	6.8	6.3×6.0	4	150	670	0.16
	10	6.3×8.0	6	100	700	0.16
	22	8×10.5	14	40	1,000	0.16
	33	8×10.5	21	40	1,000	0.16
		10×10.5	21	40	1,200	0.16
	47	10×10.5	30	30	1,200	0.16
56	10×12.5	35	22	1,400	0.16	
80 (92.0)	12	10×10.5	10	70	900	0.16
	15	10×10.5	12	70	900	0.16
	18	10×12.5	14	50	1,100	0.16
100 (115.0)	10	10×10.5	10	80	800	0.16
	12	10×10.5	12	80	800	0.16
	15	10×12.5	15	60	1,000	0.16
125 (143.8)	10	10×10.5	13	90	700	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