SGH Series

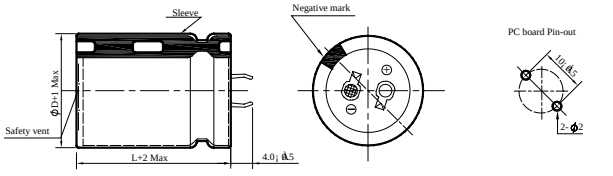
- **The capacitor can be inserted into the PCB board,**
- **High ripple current and frame retardant type capacitor.**
- **Load life 2,000 hours at 85 ℃**

◆ SPECIFICATIONS

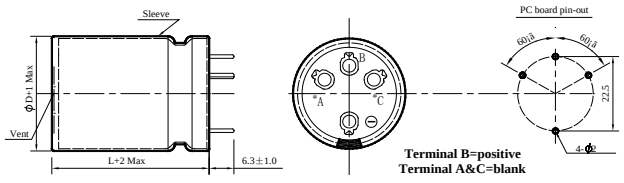
Item	Performance Characteristics
Category Temperature Range	-25 ~ +85℃
Working Voltage Range	400 ~ 450Vdc
Capacitance Range	68 ~ 680 µF
Capacitance Tolerance	±20% (at 25℃ and 120Hz)
Dissipation Factor (tanδ) (at 25℃, 120Hz)	Rated Voltage (V): 400 / 450; tanδ(Max): 0.15 / 0.25 The above values should be increased by 0.02 for every additional 1000µF
Leakage Current	I=0.02CV or 3000µA,whichever is smaller I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V) Impress the rated voltage for 5 minutes.
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25℃ after the rated voltage applied for 2,000 hours at 85℃. Capacitance change: ≦ ±20% of the initial value Dissipation factor(tanδ): ≦ 200% of the specified value Leakage current: ≦ specified value
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25℃ after exposing them for 1,000 hours at 85℃ without voltage applied. Capacitance change: ≦ ±20% of the initial value Dissipation factor(tanδ): ≦ 200% of the specified value Leakage current: ≦ 200% of the specified value
Others	Conforms to JIS-C-5101-4 (1998), characteristic W.

◆ DIMENSIONS (mm)

Terminal Code : ND : Standard



Terminal Code :K6 (ø35)



◆ PART NUMBERING SYSTEM(Example : 400V 270µF)

S	G	H	2	G	2	7	1	M	N	D	2	5	4	5						

- Special Request
- Size code(2545 : 25×45)
- Terminal length code
- Lead forming Type code
- Capacitance tolerance code(M:±20%)
- Capacitance code(270µF)
- Voltage code(400V)
- Series code (SGH)

SGH Series

◆ **Case size & Permissible rated ripple current (mA rms) at 85℃/120Hz:**

Vdc / ΦD / uF	400								Vdc / ΦD / uF	450							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
82	22×30	800	25×25	800					68	22×30	680						
100	22×30	940	25×25	940					82	22×30	820						
120	22×30	1040	25×25	1050					100	22×35	900	25×25	920				
150	22×35	1180	25×30	1210	30×25	1150			120	22×35	1020	25×30	1040	30×25	1070		
180	22×40	1340	25×35	1340	30×30	1450	35×25	1400	150	22×45	1120	25×35	1120	30×30	1120		
220	22×45	1500	25×40	1530	30×30	1530	35×25	1530	180	22×50	1260	25×40	1260	30×30	1260		
270			25×45	1700	30×35	1700	35×30	1700	220			25×45	1510	30×35	1690	35×30	1710
330			25×50	1900	30×40	1900	35×30	1900	270			25×50	1600	30×40	1800	35×35	1800
390					30×45	2150	35×40	2150	330					30×45	2020	35×35	2020
470					30×50	2350	35×40	2350	390					30×50	2240	35×45	2270
560							35×45	2710	470							35×45	2550
680							35×50	2950									

◆ **RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Vdc	Frequency (Hz)				
	60	120	1K	10K	100K
400 ~ 450	0.70	1.00	1.10	1.12	1.15