



SC Series

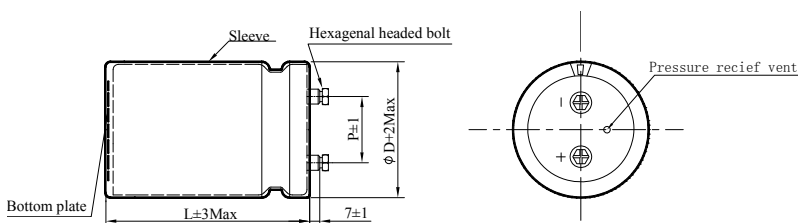


- High ripple, suitable to use in industrial power supplies for inverter circuitry, etc

◆ SPECIFICATIONS

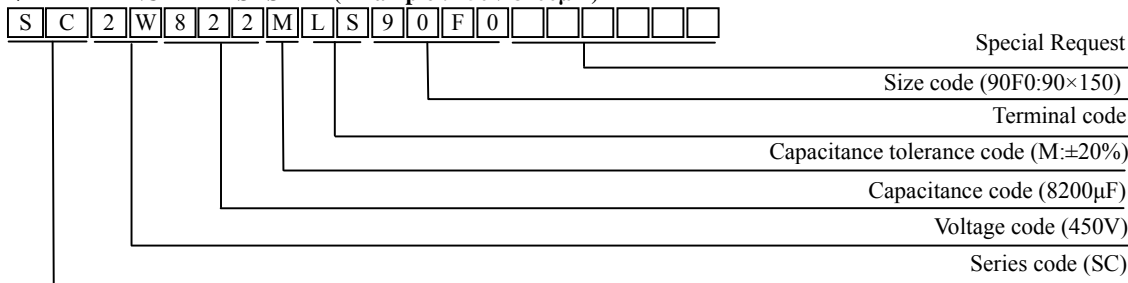
Item	Performance Characteristics								
Category Temperature Range	-25 ~ +85°C								
Working Voltage Range	200 ~ 600Vdc								
Capacitance Range	820 ~ 33,000μF								
Capacitance Tolerance	±20% (at 25°C and 120Hz)								
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>200 ~ 250</td> <td>350 ~ 450</td> <td>500 ~ 600</td> </tr> <tr> <td>tanδ(Max)</td> <td>0.20</td> <td>0.20</td> <td>0.25</td> </tr> </table>	Rated Voltage (V)	200 ~ 250	350 ~ 450	500 ~ 600	tanδ(Max)	0.20	0.20	0.25
Rated Voltage (V)	200 ~ 250	350 ~ 450	500 ~ 600						
tanδ(Max)	0.20	0.20	0.25						
Leakage Current	<p>$I=0.01CV$ or $5000\mu A$, whichever is smaller I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 5 minutes</p>								
Endurance	<p>The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 85°C.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>≒ ±15% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≒ 175% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≒ specified value</td> </tr> </table>	Capacitance change	≒ ±15% of the initial value	Dissipation factor(tanδ)	≒ 175% of the specified value	Leakage current	≒ specified value		
Capacitance change	≒ ±15% of the initial value								
Dissipation factor(tanδ)	≒ 175% of the specified value								
Leakage current	≒ specified value								
Shelf Life	<p>The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 500 hours at 85°C without voltage applied.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>≒ ±15% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≒ 175% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≒ specified value</td> </tr> </table>	Capacitance change	≒ ±15% of the initial value	Dissipation factor(tanδ)	≒ 175% of the specified value	Leakage current	≒ specified value		
Capacitance change	≒ ±15% of the initial value								
Dissipation factor(tanδ)	≒ 175% of the specified value								
Leakage current	≒ specified value								
Others	Conforms to JIS-C-5101-4 (1998), characteristic W								

◆ DIMENSIONS (mm)



ΦD	51	64	76	90
P±1	22.4	28.0	31.5	31.5

◆ PART NUMBER SYSTEM (Example : 450V 8200μF)



ALUMINUM ELECTROLYTIC CAPACITORS



SC Series

◆ Case size & Permissible rated ripple current (A rms) 120Hz / 85°C

uF	Vdc		200								250							
	ΦD		Φ51		Φ64		Φ76		Φ90		Φ51		Φ64		Φ76		Φ90	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
2200										51×80	3.9							
2700										51×80	4.4							
3300	51×80	4.9								51×100	5.4							
3900	51×80	5.3								51×120	6.2	64×80	6.2					
4700	51×100	6.4	64×80	6.4						51×120	7.1	64×100	7.1					
5600	51×120	7.5	64×80	7.5								64×100	7.7					
6800	51×120	8.7	64×100	8.7								64×120	9.1					
8200			64×100	9.3								64×120	10.0	76×100	10.0			
10000			64×100	10.3										76×100	11.6			
12000			64×120	12.0	76×100	12.0								76×120	12.8			
15000					76×100	14.4								76×120	15.0	90×100	15.0	
18000					76×120	16.5	90×100	16.5						76×150	17.6	90×100	14.5	
22000					76×150	19.6	90×120	19.6								90×150	20.9	
27000					76×150	21.5	90×120	21.5										
33000							90×150	25.5										

uF	Vdc		350								400							
	ΦD		Φ51		Φ64		Φ76		Φ90		Φ51		Φ64		Φ76		Φ90	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
1000										51×80	3.8							
1200	51×80	4.2								51×80	4.5							
1500	51×80	4.9								51×100	5.3							
1800	51×100	5.6								51×100	6.0	64×80	6.3					
2200	51×100	6.7	64×80	7.0						51×120	7.0	64×100	6.8					
2700	51×120	8.0	64×100	8.4								64×100	8.2					
3300			64×100	9.6								64×120	9.6	76×100	9.3			
3900			64×120	10.4										76×120	10.5			
4700					76×100	11.9								76×120	12.3	90×100	13.1	
5600					76×120	13.5	90×100	14.4						76×120	14.3	90×100	14.5	
6800					76×150	16.0	90×120	16.2						76×150	16.0	90×120	16.3	
8200					76×150	18.7	90×120	19.0								90×150	19.0	
10000							90×150	20.0								90×180	21.0	
12000							90×150	21.3										

uF	Vdc		450								500							
	ΦD		Φ51		Φ64		Φ76		Φ90		Φ51		Φ64		Φ76		Φ90	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
820	51×80	3.6								51×90	3.7							
1000	51×80	4.0								51×100	4.1							
1200	51×100	4.7								51×110	4.8							
1500	51×120	5.4	64×80	5.6						51×130	5.6	64×100	5.6					
1800	51×120	5.9	64×100	6.1								64×110	6.2					
2200			64×100	7.2								64×120	7.3	76×100	7.2			
2700			64×120	8.6	76×100	8.3						64×140	8.7	76×110	8.5			
3300					76×100	9.7								76×120	9.9			
3900					76×120	11.2	90×100	11.3						76×140	11.4	90×110	11.3	
4700					76×150	12.9	90×100	13.1						76×160	13.1	90×130	13.1	
5600					76×150	15.3	90×120	15.3						76×190	15.4	90×150	15.3	
8200							90×150	17.3								90×190	17.4	

SC Series

◆ Case size & Permissible rated ripple current (A rms) 120Hz / 85°C

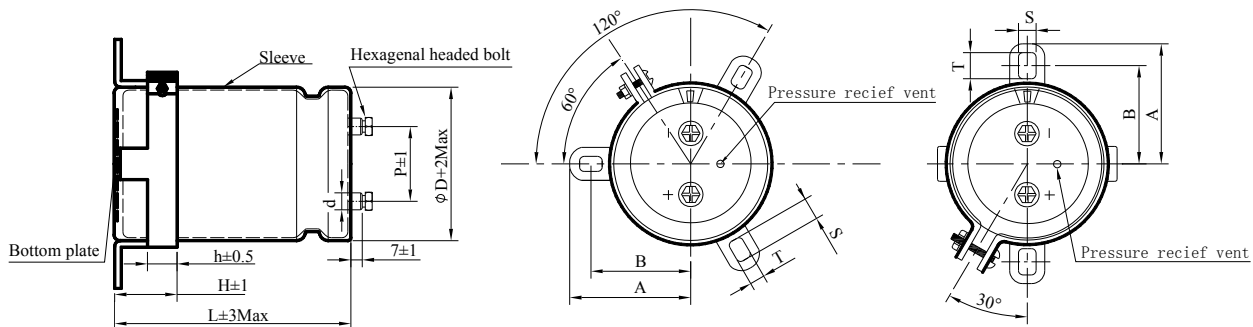
Vdc uF	550								600					
	Φ51		Φ64		Φ76		Φ90		Φ64		Φ76		Φ90	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
820	51×90	3.9												
1000	51×110	4.3												
1200	51×130	5.0	64×90	4.8					64×100	5.4				
1500			64×110	5.9					64×120	6.6				
1800			64×120	6.3					64×135	7.5	76×100	7.2		
2200			64×140	7.5	76×110	7.5			64×155	8.3	76×120	8.0		
2700			64×170	8.9	76×130	8.7			64×185	9.7	76×135	9.4		
3300					76×150	10.1	90×120	10.1	64×220	11.0	76×160	10.8		
3900					76×170	11.6	90×130	11.4			76×185	12.4	90×140	12.2
4700					76×190	13.5	90×150	13.2			76×215	14.3	90×165	14.0
5600							90×170	15.6					90×190	16.5
6800							90×200	16.3					90×220	17.1

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)				
	60	120	360	1K	10K
200 ~ 450	0.82	1.00	1.20	1.35	1.40
500 ~ 600	0.80	1.00	1.10	1.30	1.35

◆ DIMENSIONS (Screw-Mount) [mm]



◆ Terminal pitch and Nominal dia. of bolt

Terminal Code	ΦD	P±1	Nominal dia. of bolt	d±0.5
LS	51	22.4	M5	10
	64	28.0	M5	10
	76	31.5	M5	10
	90	31.5	M5	10
LA	64	28.0	M5	13
	76	31.5	M5	13
	90	31.5	M5	13
LB	76	31.5	M6	17
	90	31.5	M6	17

◆ Dimensions of mounting bracket

Leg shape	D	A±2	B±1	T±0.5	S±0.5	H±1	h±0.5
2 - Leg (Code:K1)	51	40.0	34.0	7.0	5.0	30	24
	64	46.5	40.5	7.0	5.0	30	24
	76	53.0	46.8	7.0	5.0	30	24
	90	60.3	54.0	7.0	5.0	35	20
3 - Leg (Code:K2)	51	36.5	31.8	7.0	5.0	30	24
	64	43.6	38.1	7.0	5.0	30	24
	76	50.2	44.5	7.0	5.0	30	24
	90	56.5	50.8	7.0	5.0	30	24