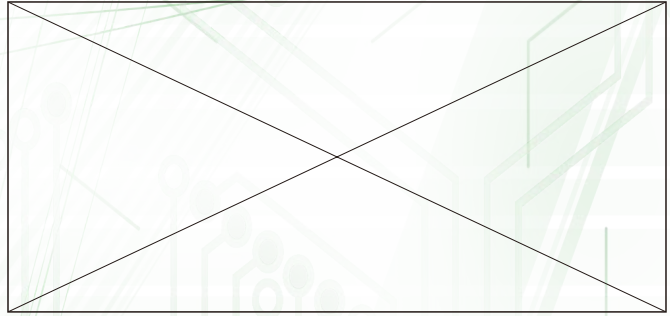


# SQ Series

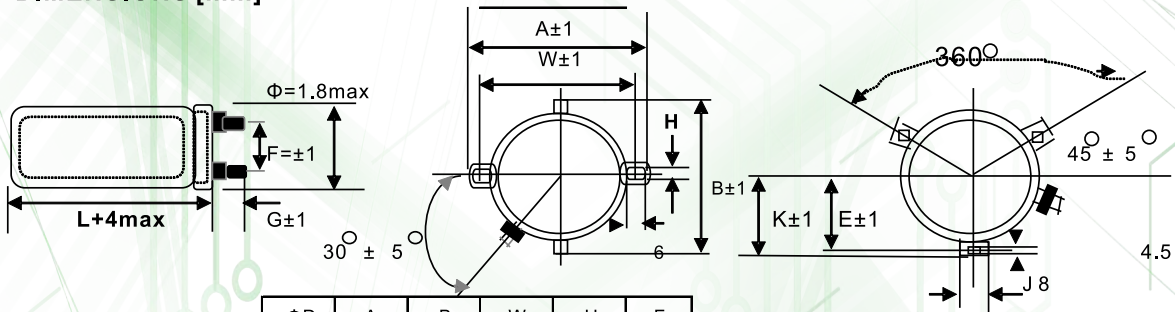
- Endurance with ripple current: 105°C 2000 hours
- Rohs compliance.



## ◆ SPECIFICATIONS

Item	Characteristics	
Category Temperature Range	-40~+105°C (10~100VDC)	-25~+105°C(160~250VDC)
Voltage Range	10 ~ 400V.DC	
Capacitance Tolerance	±20%(M)	20°C, 120Hz
Leakage Current	I=0.02CV or 5mA whichever is smaller. (at 20°C after 5min. ) Where, I : Max. Leakage Current (μA) C : Nominal Capacitance (μF) V : Rated Voltage (V) I : LC (μA), C : CAP. (μF), V : WV (Vdc) 20°C	
Dissipation Factor(tanδ)	Shall not exceed the values shown in the STANDARD RATINGS (at120Hz,20°C)	
Low Temp. Impedance Stability at 120Hz	Capacitance change	10~100VDC C(-25°C)/C(+20°C)≧0.6 160~400VDC C(-25°C)/C(+20°C)≧0.7
High Temp. Load Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2000 hours at 105°C . Capacitance change ≧ ±20% of the initial measured value tanδ ≧ 200% of the initial specified value DC Leakage Current ≧ the initial specified value	
High Temp. Non-Load Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 105°C without voltage applied. Capacitance Change ≧ ±20% of the initial measured value tanδ ≧ 200% of the initial specified value DC Leakage Current ≧ the initial specified value	

## ◆ DIMENSIONS [mm]



Φ35toΦ63.5:G=6  
Φ76toΦ89:G=5

ΦD	A	B	W	H	F	ΦD	E	K	J	F
35	58	44	48	3.5	12.7	50	32.5	37	14	22.4
50	78	64	68	4.5	22.4	63.5	38.1	43.5	14	28
63.5	90	76	80	4.5	28	76	44.5	50	14	31.5
76	104.5	90	93.5	4.5	31.5	89	50.8	56.5	16	31.5

Rated Voltage (VDC)	Case Diameter (mm)	Frequency(Hz)					
		50	120	300	1K	10K	50K
10 to 50	Φ35 to Φ89	0.95	1.00	1.03	1.05	1.09	1.12
	Φ35	0.90	1.00	1.06	1.10	1.18	1.22
63 & 80	Φ50 to Φ89	0.95	1.00	1.03	1.05	1.09	1.12
	Φ35	0.82	1.00	1.12	1.22	1.30	1.33
100	Φ50	0.90	1.00	1.06	1.10	1.18	1.22
	Φ63.5 to Φ89	0.95	1.00	1.03	1.05	1.09	1.12
	Φ35	0.80	1.00	1.19	1.34	1.46	1.52
160 to 250	Φ50 & Φ63.5	0.81	1.00	1.14	1.26	1.36	1.41
	Φ76 & Φ89	0.82	1.00	1.12	1.22	1.30	1.33
	Φ35 to Φ89	0.80	1.00	1.19	1.34	1.46	1.52

<Screw specifications>  
Plus hexagon-headed screw  
M5x0.8x10  
Maximum screw tightening torque:3.23Nm



SQ Series

VDC	10			16			25			35			50			63			80		
Cap.(μF)SV	13			20			32			44			63			79			100		
2200																			35×50	2.4	0.15
2700																			35×50	2.3	0.20
3300																			35×50	2.5	0.20
3900													35×50	2.8	0.20	35×50	2.80	0.20	35×60	3.4	0.15
4700													35×50	3.1	0.20	35×50	3.10	0.20	35×60	3.7	0.15
5600													35×50	3.3	0.20	35×60	3.50	0.20	35×80	4.5	0.15
6800													35×50	3.3	0.25	35×60	3.90	0.20	35×80	4.9	0.15
8200										35×50	3.3	0.30	35×60	3.8	0.25	35×80	4.70	0.20	35×100	5.1	0.20
10000										35×50	3.6	0.30	35×80	4.6	0.25	35×80	4.7	0.25	35×120	6.1	0.20
12000							35×50	3.7	0.35	35×60	4.2	0.30	35×80	5.1	0.25	35×100	5.5	0.25	50×80	6.7	0.20
15000							35×50	4.1	0.35	35×60	4.7	0.30	35×80	5.7	0.25	35×120	6.6	0.25	50×100	8.3	0.20
18000				35×50	4.2	0.40	35×60	4.8	0.35	35×80	5.7	0.30	35×100	6.7	0.25	50×80	7.4	0.25	50×120	9.9	0.20
22000				35×50	4.7	0.40	35×60	5.3	0.35	35×80	6.3	0.30	35×120	8.1	0.25	50×100	9.0	0.25	50×120	11.0	0.20
27000	35×50	4.9	0.45	35×60	5.5	0.40	35×80	6.4	0.35	35×100	7.5	0.30	50×80	9.1	0.25	50×120	10.9	0.25	63.5×100	11.4	0.25
33000	35×50	5.1	0.50	35×60	5.7	0.45	35×80	6.7	0.40	35×120	9.0	0.30	50×100	11.1	0.25	50×120	12.0	0.25	76×100	13.9	0.25
39000	35×60	5.9	0.50	35×80	6.8	0.45	35×100	7.8	0.40	50×80	9.2	0.35	50×120	13.1	0.25	63.5×100	12.5	0.30	76×100	13.9	0.30
47000	35×80	7.1	0.50	35×80	7.1	0.50	35×120	9.3	0.40	50×100	11.2	0.35	50×120	13.9	0.30	63.5×120	14.9	0.30	76×120	16.5	0.30
56000	35×80	7.1	0.60	35×100	8.4	0.50	50×80	9.7	0.45	50×100	11.4	0.40	63.5×100	13.9	0.35	63.5×120	16.3	0.30	76×120	18.1	0.30
68000	35×100	8.5	0.60	35×100	8.8	0.55	50×100	11.2	0.45	50×120	13.6	0.40	63.5×120	16.6	0.35	76×120	18.4	0.35	76×140	19.7	0.35
82000	35×100	8.9	0.65	50×80	10.7	0.55	50×100	11.2	0.50	63.5×100	14.8	0.45	76×120	18.9	0.40	76×140	20.0	0.40	76×140	22.1	0.40
100000	35×120	10.7	0.65	50×80	10.8	0.65	50×120	14.8	0.50	63.5×120	17.6	0.45	76×120	19.5	0.45	76×140	20.0	0.50			
120000	50×80	11.0	0.75	50×100	13.1	0.65	63.5×100	14.9	0.65	63.5×120	17.6	0.55	76×120	19.5	0.55	89×140	21.8	0.60			
150000	50×100	13.2	0.80	50×120	15.3	0.70	63.5×120	17.9	0.65	76×120	19.8	0.65	89×140	23.9	0.60						
180000	50×120	15.7	0.80	50×120	15.7	0.80	63.5×120	17.9	0.80	76×120	19.8	0.80	89×140	23.9	0.75						
220000	50×120	16.8	0.85	63.5×120	19.2	0.85	76×120	21.3	0.85	76×140	23.4	0.80									
270000	63.5×120	19.6	1.00	63.5×120	19.6	1.00	76×120	21.7	1.00	89×140	25.5	1.00									
330000	63.5×120	19.7	1.20	76×120	21.1	1.30	76×140	23.4	1.20												
390000	76×120	21.3	1.50	76×120	21.3	1.50	89×140	24.9	1.50												
470000	76×120	21.4	1.80	76×140	24.2	1.60															
560000	76×140	23.6	2.00	89×140	28.1	2.00															
680000	89×140	26.0	2.40	89×140	28.5	2.40															
VDC	100			160			200			250			315			350			400		
Cap.(μF)SV	125			200			250			300			365			400			450		
180													35×50	0.8	0.10	35×50	0.8	0.10	35×50	0.8	0.10
220													35×50	0.9	0.10	35×50	0.9	0.10	35×50	0.9	0.10
270										35×50	0.8	0.15	35×50	1.0	0.10	35×50	1.0	0.10	35×50	1.0	0.10
330							35×50	0.9	0.15	35×50	0.9	0.15	35×50	1.1	0.10	35×50	1.1	0.10	35×60	1.2	0.10
390							35×50	1.0	0.15	35×50	1.0	0.15	35×50	1.2	0.10	35×60	1.3	0.10	35×60	1.3	0.10
470							35×50	1.1	0.15	35×50	1.1	0.15	35×60	1.4	0.10	35×60	1.4	0.10	35×80	1.4	0.10
560				35×50	1.2	0.15	35×50	1.2	0.15	35×50	1.2	0.15	35×60	1.5	0.10	35×80	1.6	0.10	35×80	1.4	0.15
680				35×50	1.3	0.15	35×50	1.3	0.15	35×60	1.4	0.15	35×80	1.7	0.15	35×80	1.6	0.15	35×100	1.7	0.15
820				35×50	1.4	0.15	35×50	1.4	0.15	35×80	1.6	0.15	35×80	1.7	0.15	35×100	1.8	0.15	35×120	2.0	0.15
1000				35×50	1.6	0.15	35×60	1.7	0.15	35×80	1.6	0.20	35×100	2.0	0.15	35×120	2.2	0.15	50×80	2.2	0.15
1200				35×60	1.9	0.15	35×60	1.9	0.15	35×80	1.8	0.20	35×120	2.4	0.15	50×80	2.4	0.15	50×100	2.7	0.15
1500				35×60	2.1	0.15	35×80	2.3	0.15	35×100	2.1	0.20	50×80	2.7	0.15	50×100	3	0.15	50×120	3.3	0.15
1800	35×50	2.7	0.10	35×80	2.5	0.15	35×80	2.5	0.15	35×120	2.5	0.20	50×100	3.3	0.15	50×120	3.6	0.15			
2200	35×50	3.0	0.10	35×80	2.8	0.15	35×100	3.0	0.15	50×80	2.9	0.20	50×120	4.0	0.15	50×120	4	0.15	63.5×100	4.2	0.15
2700	35×60	3.5	0.10	35×100	3.3	0.15	35×120	3.6	0.15	50×100	3.5	0.20	50×120	4.4	0.15	63.5×100	4.6	0.15			
3300	35×80	4.2	0.10	35×120	3.8	0.15	50×80	4.1	0.15	50×80	4.2	0.20	63.5×100	5.1	0.15				63.5×120	5.5	0.15
3900	35×80	4.2	0.12	50×80	3.8	0.20	50×100	4.9	0.15	50×100	4.6	0.20	63.5×120	6.0	0.15	76×120	6.7	0.15			
4700	35×100	5.0	0.12	50×100	4.6	0.20	63.5×100	5.3	0.20	50×120	5.7	0.20	76×100	6.8	0.15				76×130	7.6	0.15
5600	35×100	5.4	0.12	50×100	5.1	0.20	63.5×100	5.8	0.20	63.5×120	6.3	0.20	76×120	8.0	0.15	76×130	8.3	0.15	89×140	9.4	0.15
6800	35×120	5.8	0.15	50×120	6.1	0.20	63.5×120	6.9	0.20	76×120	7.7	0.20	76×130	9.2	0.15	76×140	9.5	0.15	89×140	10.4	0.15
8200	50×80	6.4	0.15	63.5×100	7.0	0.20	63.5×120	7.6	0.20	76×120	8.4	0.20	76×140	11.4	0.15	89×140	11.4	0.15			
10000	50×100	7.8	0.15	63.5×120	8.4	0.20	76×120	9.3	0.20	76×140	10.0	0.20	76×140	12.6	0.15						
12000	50×120	9.3	0.15	76×100	9.4	0.20	76×120	10.2	0.20	89×140	11.9	0.20									
15000	50×120	10.4	0.15	76×120	11.4	0.20	76×140	12.2	0.20												
18000	63.5×120	10.4	0.20	76×140	13.4	0.20	89×140	13.1	0.25												
22000	63.5×120	12.5	0.20	89×140	14.5	0.25															
27000	76×120	13.7	0.25	89×140	16.0	0.25															
33000	76×120	15.2	0.25																		
39000	76×140	16.1	0.30																		
47000	89×140	19.3	0.30																		
56000	89×140	21.1	0.30																		