

SQ Series

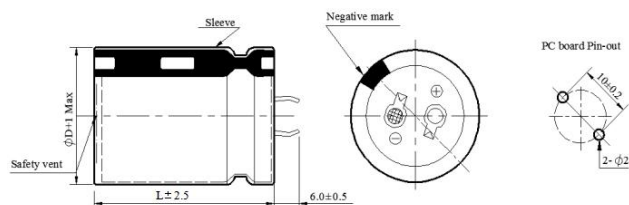
- Endurance with ripple current: 3,000 hours at 105°C.

SPECIFICATIONS

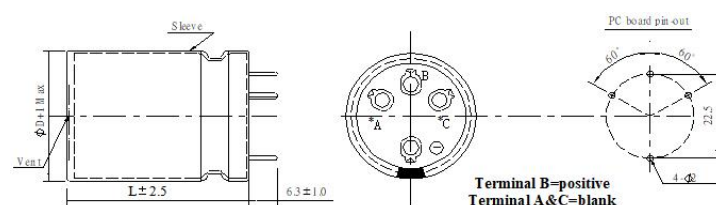
Item	Performance Characteristics			
Category Temperature Range	-25 ~ +105°C			
Working Voltage Range	400-450Vdc			
Capacitance Range	56~680μF			
Capacitance Tolerance	±20% (at 20°C and 120Hz)			
Dissipation Factor (tan δ) (at 20°C, 120Hz)	Rated Voltage (V)	400	420	450
	tan δ (Max)	0.15	0.20	0.20
The above values should be increased by 0.02 for every additional 1000μF				
Leakage Current	$I \leq 3 \sqrt{CV}$			
	I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Apply rated voltage the rated voltage for 5 minutes.			
Low Temperature Characteristics Impedance Ratio(MAX)	Rated Voltage (V)	400	420	450
	Z(-25°C)/Z(+20°C)	4	8	8
(at 120Hz)				
Endurance	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 3,000 hours at 105°C.			
	Capacitance change	≒ ±20% of the initial value		
	Dissipation factor(tan δ)	≒ 200% of the specified value		
	Leakage current	≒ specified value		
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied.			
	Capacitance change	≒ ±20% of the initial value		
	Dissipation factor(tan δ)	≒ 200% of the specified value		
	Leakage current	≒ 200% of the specified value		
Others	Conforms to JIS-C-5101-4 (1998) and IEC 60384-4			

DIMENSIONS(mm)

Terminal Code :S2



Terminal Code :S4



PART NUMBER SYSTEM(Example : 420V 680μF)

E	S	Q	4	2	0	M	6	8	1	R	5	5	S	2	6	0	A	A	
																			Special Request
																			Lead size
																			Lead type
																			Height code (L: 55mm)
																			Diameter code (R: φ35)
																			Capacitance code (680 μ F)
																			Capacitance tolerance code (M: ±20%)
																			Voltage code (420V)
																			Series code (SQ)
																			Category code

SQ Series

◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz

Vdc ΦD uF	400								420							
	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	22×25	610							22×25	610	25×25	620				
100	22×30	660	25×25	670					22×30	660	25×25	660				
120	22×35	710	25×25	710	30×25	730			22×35	710	25×30	710	30×25	710		
150	22×40	830	25×30	840	30×25	840	35×25	840	22×40	840	25×35	840	30×25	840		
180	22×45	930	25×35	930	30×30	930	35×25	930	22×45	910	25×35	910	30×30	910	35×25	910
220	22×50	1050	25×40	1050	30×30	1050	35×25	1050	22×50	1050	25×45	1050	30×35	1050	35×25	1050
270			25×45	1160	30×35	1160	35×30	1160			25×50	1160	30×40	1160	35×30	1160
330			25×50	1370	30×40	1370	35×30	1370					30×45	1400	35×35	1400
390			25×60	1440	30×45	1440	35×35	1440					30×50	1500	35×40	1500
470					30×50	1810	35×40	1810							35×45	1810
560					30×60	2000	35×45	2000							35×50	2050
680							35×50	2150							35×60	2150

Vdc ΦD uF	450							
	Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
56	22×25	480						
68	22×30	510	25×25	510				
82	22×30	610	25×25	610				
100	22×35	660	25×30	660	30×25	660		
120	22×40	760	25×35	760	30×25	760	35×25	760
150	22×45	840	25×35	840	30×30	840	35×25	840
180	22×50	960	25×40	960	30×30	960	35×30	960
220			25×45	1070	30×35	1070	35×30	1070
270			25×60	1120	30×40	1120	35×35	1120
330					30×50	1380	35×40	1380
390					30×60	1440	35×40	1440
470							35×50	1760
560							35×60	1820

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)					
	50	120	300	1K	10K	50K
400 ~ 450	0.77	1.00	1.16	1.30	1.41	1.43