

ALUMINUM ELECTROLYTIC CAPACITORS

SG

High Ripple and long life
Series

- Features: High temperature life time 5000 hours at 105°C
- Recommended Applications : High ripple current for Electronic Ballast , Power Supply...etc
- Corresponding product to RoHS

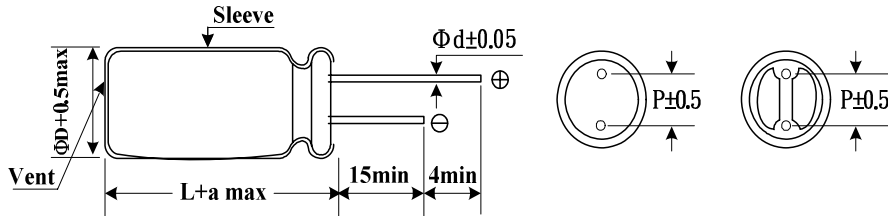
SG
↑
SQ Long Life



Specifications

Item	Characteristics							
Operating Temperature Range	-40~+105°C				-25~+105°C			
Rated Voltage Range	160 ~ 400VDC				450VDC			
Rated Capacitance Range	4.7 ~ 330µF				3.3 ~ 100µF			
Capacitance Tolerance	± 20 % at 120Hz , 20°C							
Leakage Current (MAX) (20°C)	$I=0.06CV + 10(\mu A)$, (After rated voltage applied for 2 minutes)							
Dissipation Factor (MAX) (tan δ) (120Hz ,20°C)	WV	160	200	250	350	400	450	
	tan δ	0.15	0.15	0.15	0.20	0.24	0.24	
Low Temperature Stability Impedance Ratio (MAX)	Z (120Hz)	160	200	250	350	400	450	
	Z-25°C / Z+20°C	3	3	3	5	5	6	
	Z-40°C / Z+20°C	6	6	6	6	6	—	
Endurance	After applying rated voltage with rated ripple current for 5000 hours at 105°C , the capacitors shall meet the following requirements.							
	Capacitance Change	Within ± 20 % of initial value						
	Dissipation Factor	Not more than 200% of the specified value						
Shelf Life	After placed at 105°C without voltage applied for 1000 hours, the capacitors shall meet the same requirement as Endurance.							

Diagram of Dimensions



φ D	10	13	16	18	22
P	5.0	5.0	7.5	7.5	10.0
φ d	0.6	0.6	0.8	0.8	0.8
a	1.5	2.0	2.0	2.0	2.0

Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	50,60	120	300	1K	10K~100K
Coefficient	0.80	1.00	1.20	1.40	1.60

ALUMINUM ELECTROLYTIC CAPACITORS



High Ripple and long life Series

■ Dimensions, Rated Ripple Current

Capacitance (μF)	Rated (Surge) Voltage					
	160 (200)		200 (250)		250 (300)	
	Size	Ripple	Size	Ripple	Size	Ripple
10			※10x16	80	※10x16	85
					10X20	100
15			※10x16	100		
22	10X20	160	10X20	160	※10x25	145
					13x20	160
33	10X20	210	※10X20	160	13x20	210
			13x20	210		
47	13x20	260	13x20	260	13x25	270
					16x20	275
68	13x25	360	13x25	360	16x25	380
	16x20	430	16x20	430	18x20	375
100	16x25	475	16x25	475	16x32	520
	18x20	465	18x20	465	18x25	500
150	16x32	650	18x25	650	18x32	650
	18x25	625				
220	16x32	750	18x32	780	18x40	820
	18x25	725				
330	18x32	960				

Capacitance (μF)	Rated (Surge) Voltage					
	350 (400)		400 (450)		450 (500)	
	Size	Ripple	Size	Ripple	Size	Ripple
3.3					10X20	60
4.7			※10x16	60	13x20	80
6.8			※10x16	72	※10X20	90
10	10X20	100	※10x16	85	13x20	110
			10X20	100	13x25	110
22	13x20	160	13x20	145	13x20	145
			13x25	170	16x25	190
			16x20	200	18x20	200
33	13x25	230	16x25	230	16x25	235
	16x20	250	18x20	250	16x32	275
					18x25	280
47	16x25	300	16x25	255		
	18x20	315	16x32	300	18x32	340
			18x25	325		
68	16x32	400	16x30	340	18x25	335
	18x25	380	16x32	350	18x32	395
			18x36	420	18x40	460
100	18x32	530	18x32	465	22x40	580
			18x40	545		
150			18x36	525		
			22x40	650		

☆ Size : D φ x L (mm) ☆ Ripple Current : mA/rms. 105°C, 120Hz

※ Down Size : 3000 Hrs