SG [Electronic Ballast]

105□C Single-Ended Lead Aluminum Electrolytic Capacitors

Miniature Size Aluminum Electrolytic Capacitors

ELECTRICAL CHARACTERISTICS

Operating Temperature : -40 ~ +105°C / -25 ~ +105°C

Working Voltage : 160 ~ 400V / 450V

Rate Capacitance Range : 4.7 ~ 330μF / 3.3~100μF

Capacitance Tolerance : -20 ~ +20%

DC Leakage Current (μA) : I = 0.02 CV + 25

(After 2 Minute Application of DC Working Voltage at 25°C)

Dissipation Factor : at 120 Hz, 25°C

WV (V) :	160	200	250	350	400	450
D.F (%) :	15	15	15	20	24	24

For capacitor whose capacitance exceeds 1000μF. The value of D.F(%) is increased by 2% for every addition of 1000μF.

Load Life : 5000 Hours at Assured with Full Rated Maximum Ripple Current Applied

(a) Capacitance Change : Within 20% of Initial Value

(b) Dissipation Factor : Not Exceed 200% of Initial Requirement

(c) Leakage Current : Not Exceed the Initial Requirement

Shelf Life : Hours, No Voltage Applied

(a) Capacitance Change : Within 20% of Initial Value

(b) Dissipation Factor : Not Exceed 200 % of Initial Requirement

(c) Leakage Current : Not Exceed 200% of Initial Requirement

Pb-free

RoHS COMPLIANT

Multiplier for Ripple Current
Frequency coefficient

Frequency (Hz)	50,60	120	300	1K	10K~100K
6.3~100V Below~68μF	0.80	1.00	1.20	1.40	1.6

Temperature coefficient

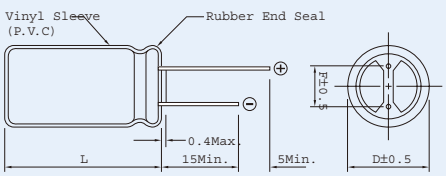
Temperature(°C)	65	85	105
Factor	1.70	1.40	1.00

DIAGRAM OF DIMENSIONS

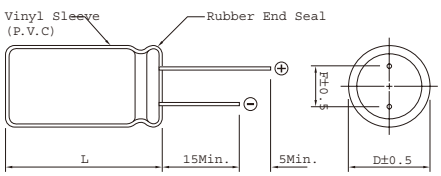
Dimensions : mm

Dø	F	dø
4.0	1.5	0.5
5.0	2.0	0.5
6.3	2.5	
8.0	3.5	
10.0	5.0	0.6
12.0		
13.0		
16.0	7.5	0.8
18.0		
22.0	10.0	0.8

Rubber Stand-off



L ≤16 : L+1.5max
L >16 : L+2max
Dø =8&10 : L+2.5



Dø <20 : Dø+0.5
Dø ≥20 : Dø+1

CASE SIZE OF STANDARD PRODUCTS

CAP. (μF)	RATED VOLTAGE								
	160			200			250		
	SIZE	Ripple	Impedance	SIZE	Ripple	Impedance	SIZE	Ripple	Impedance
10	10 x 15	320	2.90						
							10 x 19.5	100	3.50
15							10 x 19.5	130	3.50
22	10 x 19.5	160	1.52	10 x 19.5	160	1.50			
							13 x 20	160	2.50
33	10 x 19.5	210	1.30				13 x 20	210	1.90
				13 x 20	210	0.95			
47	13 x 20	260	0.95	13 x 20	260	0.91	13 x 25	270	1.70
	10 x 19.5	750	1.50				16 x 20	275	1.50
68	13 x 25	360	0.60	13 x 25	360	0.60	16 x 25	380	0.80
	16 x 20	430	0.55	16 x 20	430	0.55	18 x 20	375	0.90
82				16 x 20	1380	0.55	16 x 25	400	0.80
100	16 x 20	400	0.40	16 x 25	475	0.30	16 x 25	440	0.86
	16 x 25	475	0.30						
	18 x 20	465	0.31	18 x 20	465	0.31	18 x 25	500	0.65
150	16 x 32	650	0.22	18 x 25	650	0.27	18 x 32	650	0.45
	18 x 25	625	0.24	16 x 25	650	0.22			
220	16 x 32	750	0.22	18 x 32	780	0.22	18 x 40	820	0.43
	18 x 25	725	0.24						
330	18 x 32	960	0.22						

Note : * 1. D x L : mm

* 2. mA rms at 105°C, 100KHz

* 3. Impedance Spec :100KHz / 25°C (Ω MAX)

* 4. Down Size : 3000Hrs

CASE SIZE OF STANDARD PRODUCTS

CAP. (μF)	RATED VOLTAGE								
	350			400			450		
	SIZE	Ripple	Impedance	SIZE	Ripple	Impedance	SIZE	Ripple	Impedance
3.3							10 x 19.5	60	6.50
4.7							13 x 20	80	3.60
6.8	10 x 19.5	84	4.00						
10	10 x 19.5	100	3.00	10 x 19.5	100	2.90	13 x 20	110	3.00
15	13 x 20	130	2.75	13 x 20	120	2.85			
22	13 x 20	160	2.10	13 x 25	170	1.35			
				16 x 20	200	1.00	18 x 20	200	2.20
33	13 x 25	230	1.00	16 x 25	230	0.95	16 x 32	275	1.30
	16 x 20	250	0.91	18 x 20	250	0.91	18 x 25	280	1.20
47	16 x 25	300	0.75	16 x 25	300	0.85	18 x 32	340	1.00
				16 x 32	300	0.85			
	18 x 20	315	0.80	18 x 25	325	0.80			
68	16 x 32	400	0.50	18 x 36	420	0.49	18 x 40	460	0.80
	18 x 25	400	0.62	18 x 32	390	0.59			
82	18 x 25	400	0.55	18 x 40	490	0.48			
100	18 x 32	530	0.40	18 x 40	545	0.34			
150				22 x 40	650	0.30			

Note : * 1. D x L : mm

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