

# LC [ High Temperature and Long Life ]

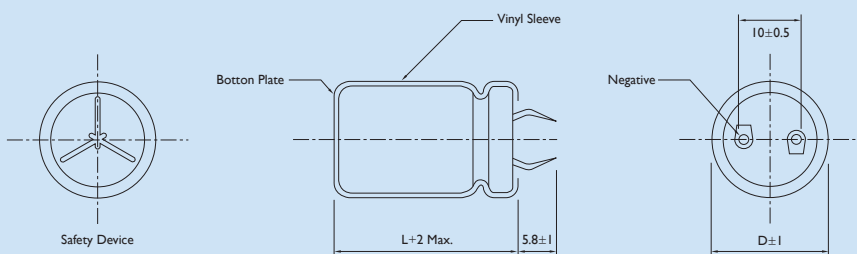
105°C 5000 Hours, Wide Temperature Range and Long Life

## Large Can Aluminum Electrolytic Capacitors

### ELECTRICAL CHARACTERISTICS

Operating Temperature Range	-25 ~ +105°C		
Rated Voltage Range	160 ~ 450VDC		
Rated Capacitance Range	270 ~ 2200μF		
Capacitance Tolerance	±20% at 120Hz, 20°C		
Leakage Current	Leakage Current (Max.) (20°C) : I = 0.02CV or 3μA whichever is greater. (After Rated Voltage Applied for 5 Minutes)		
Dissipation Factor (Max. tanδ) (20°C, 120Hz)	Rated Voltage (V)	160~400	450
	D.F (%)	15	25
Endurance	After the rated voltage has been applied at 105°C for 5000 hours, the capacitors shall meet the following requirements. (a) Capacitance Change : Within ±20% of Initial Value (b) Dissipation Factor: Not Exceeding 200% of the Specified Value (c) Leakage Current: Not Exceeding the Specified Value		
Shelf Life	After having been placed at 105°C without voltage applied for 1000 hours, the capacitors shall meet the same requirements as Endurance.		

### DIAGRAM OF DIMENSIONS



### DESCRIPTION

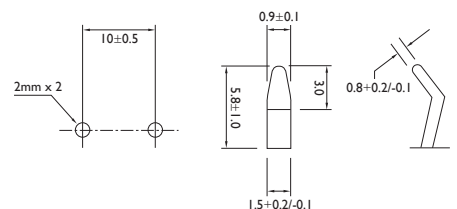
Longer life than HW, Snap-in terminal, High ripple current.  
Applications: Smoothing circuit, TV/Monitor, Adapter, SMPS

### MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient				
<b>FREQUENCY (Hz)</b>	50	60	120	400
<b>COEFFICIENT</b>	0.80	0.85	1.00	1.14
<b>FREQUENCY (Hz)</b>	1K	2.4K	5K	10K
<b>COEFFICIENT</b>	1.23	1.30	1.36	1.40

Unit: mm

### Location of P.C.B. Holes





## CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D × L: mm

CAP. (μF)	RATED VOLTAGE WV (SURGE VOLTAGE WV)							
	160 (200) SIZE		180 (225) SIZE		200 (250) SIZE		250 (300) SIZE	
		RIPPLE		RIPPLE		RIPPLE		RIPPLE
150							22 × 25	0.75
180							22 × 30	0.85
220					22 × 25	0.85	22 × 30	1.00
							25 × 25	1.00
270	22 × 25	0.85	22 × 25	0.85	22 × 30	1.00	22 × 35	1.22
							25 × 25	1.15
330	22 × 30	1.00	22 × 30	1.10	22 × 30	1.15	22 × 40	1.36
					25 × 25	1.15	25 × 30	1.30
390	22 × 30	1.15	22 × 35	1.32	22 × 35	1.30	22 × 45	1.54
	25 × 25	1.15	25 × 25	1.25	25 × 30	1.30	25 × 35	1.48
							30 × 25	1.45
							35 × 25	1.59
470	22 × 35	1.30	22 × 40	1.47	22 × 40	1.52	22 × 50	1.78
	25 × 30	1.30	25 × 30	1.40	25 × 35	1.54	25 × 40	1.75
					30 × 25	1.49	30 × 30	1.72
							35 × 30	1.88
560	22 × 40	1.57	22 × 45	1.70	22 × 45	1.70	25 × 40	1.80
	25 × 30	1.50	25 × 35	1.63	25 × 35	1.65	30 × 35	1.89
	30 × 25	1.54	30 × 25	1.60	30 × 30	1.72	35 × 30	1.94
680	22 × 45	1.75	22 × 50	1.87	25 × 45	1.97	25 × 50	2.10
	25 × 35	1.70	25 × 40	1.82	30 × 35	1.97	30 × 40	2.10
	30 × 30	1.77	30 × 30	1.80	35 × 30	2.02	35 × 35	2.18
			35 × 25	1.84				
820	22 × 50	2.03	25 × 45	2.05	25 × 45	2.20	30 × 45	2.30
	25 × 40	1.97	30 × 35	2.05	30 × 35	2.10	35 × 40	2.39
	30 × 30	1.95	35 × 30	2.11	35 × 30	2.16		
	35 × 25	1.99						
1000	25 × 45	2.15	25 × 50	2.27	30 × 45	2.32	30 × 50	2.55
	30 × 35	2.15	30 × 40	2.29	35 × 35	2.30	35 × 45	2.65
	35 × 30	2.21	35 × 30	2.25				
1200	30 × 40	2.45	30 × 45	2.57	30 × 50	2.75	35 × 50	2.90
	35 × 35	2.52	35 × 35	2.55	35 × 40	2.75		
1500	30 × 50	2.75	35 × 40	2.85	35 × 45	2.90		
	35 × 40	2.75						
1800	35 × 45	3.00	35 × 50	3.10				
2200	35 × 50	3.50						

Note: 1. Ripple Current: (A/rms) 105°C, 120Hz

2. Dissipation Factor: 20°C, 120Hz

3. ESR: 120Hz / 20°C (Ω Max.)

## CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

CAP. (μF)	RATED VOLTAGE WV (SURGE VOLTAGE WV)							
	315 (365) SIZE		350 (400) SIZE		400 (450) SIZE		450 (500) SIZE	
	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE
56							22 x 25	0.55
68					22 x 25	0.55	22 x 30	0.65
82	22 x 25	0.55	22 x 25	0.60	22 x 30	0.65	22 x 35	0.80
					25 x 25	0.65	25 x 25	0.75
100	22 x 30	0.65	22 x 30	0.70	22 x 35	0.79	22 x 40	0.89
			25 x 25	0.70	25 x 25	0.75	25 x 30	0.85
120	22 x 30	0.75	22 x 35	0.80	22 x 40	0.89	22 x 45	0.95
	25 x 25	0.75	25 x 30	0.80	25 x 30	0.85	25 x 35	0.92
					30 x 25	0.87	30 x 25	0.90
150	22 x 35	0.80	22 x 40	0.86	22 x 45	0.93	22 x 50	1.14
	25 x 30	0.80	25 x 35	0.87	25 x 35	0.90	25 x 40	1.11
			30 x 25	0.85	30 x 30	0.94	30 x 30	1.10
					35 x 25	0.96		
180	22 x 40	1.01	22 x 45	1.05	22 x 50	1.14	25 x 45	1.25
	25 x 35	1.02	25 x 40	1.07	25 x 40	1.11	30 x 35	1.24
	30 x 25	1.00	30 x 30	1.05	30 x 30	1.10	35 x 25	1.20
					35 x 25	1.12		
220	22 x 45	1.10	22 x 50	1.16	25 x 45	1.20	25 x 50	1.36
	25 x 40	1.12	25 x 45	1.20	30 x 35	1.20	30 x 40	1.38
	30 x 30	1.10	30 x 35	1.18	35 x 30	1.24	35 x 30	1.35
			35 x 25	1.15				
270	25 x 45	1.25	25 x 50	1.31	25 x 50	1.36	30 x 45	1.51
	30 x 35	1.25	30 x 40	1.33	30 x 40	1.38	35 x 35	1.50
			35 x 30	1.30	35 x 30	1.35		
330	25 x 50	1.53	30 x 45	1.46	30 x 45	1.51	30 x 50	1.70
	30 x 40	1.53	35 x 35	1.45	35 x 35	1.50	35 x 40	1.70
	35 x 30	1.50						
390	30 x 45	1.71	30 x 50	1.65	30 x 50	1.70	35 x 45	1.90
	35 x 30	1.60	35 x 40	1.65	35 x 40	1.70		
470	30 x 50	1.85	35 x 45	1.85	35 x 45	1.90	35 x 50	2.10
	35 x 35	1.75						
560	35 x 40	2.00	35 x 50	2.10				
680	35 x 45	2.20						

Note: 1. Ripple Current: (A/rms) 105°C, 120Hz

2. Dissipation Factor: 20°C, 120Hz

3. ESR: 120Hz / 20°C (Ω Max.)