

CLH Standard 85°C

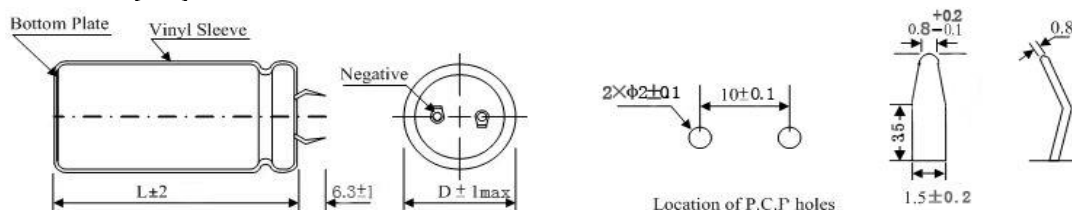
- Endurance: 85°C 2000 hours
- Corresponding product to RoHS



■ SPECIFICATIONS

Item	Characteristics								
Category Temperature Range	-40~+85℃	-25~+85℃							
Rated Voltage Range	10~100V	160~500V							
Rated Capacitance Range	68~82000μF								
Capacitance Tolerance	±20%(120Hz,20℃)								
Leakage Current (20℃)	I=3√Cr*Vr (μA) (After rated voltage applied for 5 minutes) I: Max. leakage current (μA), Cr : Nominal capacitance (μF), Vr : Rated voltage (V)								
Dissipation Factor(MAX) (tanδ) (120Hz ,20℃)	Rated voltage(V)	10~16	25	35	50	63~100	160~250	315~450	500
	tanδ	0.55	0.45	0.35	0.30	0.25	0.15	0.20	0.25
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz								
	Rated voltage(V)	10	16~35	50~100	160~250	315~500			
	Z-25℃ / Z+20℃	5	4	4	4	8			
	Z-40℃ / Z+20℃	18	15	10	—	—			
Endurance	After applying rated voltage with rated Ripple current for 2000hrs at 85℃,Restore them to room temperature for 16 hours before testing,the capacitor shall meet the following requirements.								
	Capacitance change		Within ±20% of the initial value						
	D.F. (tanδ)		Not more than 200% of the specified value						
	Leakage current		Not more than the specified value						
Shelf Life	After storage for 1000 hours at 85℃,UR to be applied for 30 minutes and then Restore them to room temperature for 16 hours before testing,the capacitor shall meet the following requirements.								
	Capacitance change		Within ±20% of the initial value						
	D.F. (tanδ)		Not more than 200% of the specified value						
	Leakage current		Not more than 200% of the specified value						

■ Dimensions [mm]



■ Multiplier for Ripple Current

Freq. (Hz)	50/60	120	300	1K	10K	≥50K
≤100V	0.88	1.00	1.07	1.15	1.15	1.15
160V~250V	0.80	1.00	1.17	1.32	1.45	1.50
315V~500V	0.77	1.00	1.16	1.30	1.41	1.43

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■STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tanδ	Ripple current (A/rms85°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tanδ	Ripple current (A/rms85°C) (120Hz)
10(13)	10000	22x25	0.55	2.50	35(44)	5600	22x35	0.35	2.30
	12000	22x25	0.55	2.90			22x30	0.35	2.30
	15000	22x30	0.55	3.20		6800	22x40	0.35	2.90
		25x25	0.55	3.10			25x35	0.35	2.60
	18000	22x35	0.55	3.60			30x25	0.35	2.70
		25x30	0.55	3.60		8200	22x50	0.35	2.80
	22000	22x40	0.55	4.00			25x40	0.35	2.80
		25x35	0.55	4.10		10000	25x45	0.35	3.10
	33000	25x40	0.55	4.60			30x35	0.35	3.20
		30x30	0.55	4.80		12000	25x50	0.35	3.50
	39000	25x45	0.55	5.20			30x40	0.35	3.50
		30x35	0.55	5.30		15000	30x45	0.35	4.10
	47000	25x45	0.55	5.80			35x35	0.35	4.10
		30x40	0.55	6.00		18000	35x40	0.35	4.70
	56000	30x45	0.55	6.70		22000	35x45	0.35	5.30
		35x35	0.55	6.80		27000	35x50	0.35	7.00
16(20)	68000	30x50	0.55	7.50	50(63)	2200	22x25	0.30	1.70
		35x40	0.55	7.70		2700	22x30	0.30	1.90
	82000	35x45	0.55	8.70			25x25	0.30	1.90
	8200	22x25	0.55	2.20		3300	22x35	0.30	2.00
		22x30	0.55	2.60		3900	22x35	0.30	2.10
	10000	25x30	0.55	2.60			22x35	0.30	2.10
	12000	22x35	0.55	2.90		4700	25x30	0.30	2.40
		22x40	0.55	3.30			22x40	0.30	2.40
	15000	25x30	0.55	3.30		5600	22x50	0.30	2.50
		30x25	0.55	3.40			25x40	0.30	2.50
	18000	22x45	0.55	3.80			30x30	0.30	2.50
		25x35	0.55	3.70		6800	25x45	0.30	2.80
	22000	22x50	0.55	4.20			30x35	0.30	2.80
		25x40	0.55	4.20		8200	25x50	0.30	3.20
	27000	25x45	0.55	5.00			30x40	0.30	3.00
		30x35	0.55	5.00	63(79)	10000	30x45	0.30	3.40
25(32)	33000	30x40	0.55	5.60			35x35	0.30	3.40
		35x30	0.55	5.60		12000	30x50	0.30	3.80
	39000	30x45	0.55	6.20			35x40	0.30	3.80
		35x35	0.55	6.30		15000	35x50	0.30	4.50
	47000	30x50	0.55	7.00		1500	22x25	0.25	1.60
		35x40	0.55	7.20		1800	22x30	0.25	1.80
	56000	35x45	0.55	8.00		2200	22x30	0.25	2.00
	5600	22x25	0.45	2.00			25x25	0.25	2.00
		22x30	0.45	2.30		2700	22x35	0.25	2.20
	6800	25x25	0.45	2.30			25x30	0.25	2.30
	8200	22x35	0.45	2.60		3300	22x40	0.25	2.30
		22x40	0.45	2.90			25x35	0.25	2.30
	10000	25x30	0.45	2.80		3900	25x40	0.25	2.60
		22x45	0.45	3.30			30x30	0.25	2.60
	12000	25x35	0.45	3.20			30x25	0.25	2.70
		30x30	0.45	3.40		4700	25x45	0.25	3.00
35(44)	15000	25x40	0.45	3.70			30x30	0.25	3.00
		35x25	0.45	3.90		5600	25x45	0.25	3.10
	18000	25x50	0.45	4.30			30x35	0.25	3.20
		30x35	0.45	4.20		6800	30x30	0.25	3.30
		35x30	0.45	4.40			30x40	0.25	3.60
	22000	30x40	0.45	4.80			35x35	0.25	3.70
		35x35	0.45	5.00		8200	30x40	0.25	3.70
	33000	35x40	0.45	6.50			35x40	0.25	3.80
		35x45	0.45	7.50		10000	35x45	0.25	4.30
	47000	35x50	0.45	8.80		12000	35x50	0.25	4.80
	3300	22x25	0.35	1.80	80(100)	1000	22x25	0.25	1.30
	3900	22x30	0.35	2.10		1200	22x30	0.25	1.50
	4700	25x25	0.35	2.20		1500	25x25	0.25	1.70

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Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tanδ	Ripple current (A/rms85°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tanδ	Ripple current (A/rms85°C) (120Hz)
	1800	22x35	0.25	1.90		470	25x30	0.15	1.60

80(100)	2200	25x30	0.25	1.90	160(200)	560	22x35	0.15	1.90
		22x40	0.25	2.10			25x30	0.15	1.90
		25x35	0.25	2.10			30x25	0.15	2.00
		30x25	0.25	2.20			22x40	0.15	2.10
	2700	22x50	0.25	2.50		680	25x35	0.15	2.20
		25x40	0.25	2.50			22x50	0.15	2.50
		30x30	0.25	2.50			25x40	0.15	2.40
	3300	25x45	0.25	2.80		820	30x30	0.15	2.50
		30x35	0.25	2.80			25x45	0.15	2.70
	3900	25x50	0.25	3.10		1000	30x35	0.15	2.80
		30x40	0.25	3.20			35x30	0.15	2.70
		35x30	0.25	3.20		1200	25x50	0.15	3.10
	4700	30x45	0.25	3.60			30x40	0.15	3.20
		35x35	0.25	3.60			35x35	0.15	3.00
	5600	30x50	0.25	3.80		1500	25x45	0.15	2.50
		35x40	0.25	3.80			30x35	0.15	2.90
	6800	35x45	0.25	4.10		1800	35x30	0.15	2.90
	8200	35x50	0.25	4.70		2200	25x50	0.15	3.30
	10000	35x50	0.25	5.20	180(225)	270	30x40	0.15	3.10
	12000	35x55	0.25	5.80		330	30x45	0.15	3.60
100(125)	680	22x25	0.25	1.10		390	35x35	0.15	4.10
	820	22x30	0.25	1.20		470	35x45	0.15	1.10
	1000	25x25	0.25	1.40			35x50	0.15	1.20
	1200	22x35	0.25	1.60			22x25	0.15	1.40
		25x30	0.25	1.60		560	22x30	0.15	1.40
	1500	22x40	0.25	1.80			25x25	0.15	1.60
		25x35	0.25	1.70		680	25x30	0.15	1.60
		30x25	0.25	1.80			25x35	0.15	1.80
	1800	22x50	0.25	2.10			22x30	0.15	1.90
		25x40	0.25	2.00			22x40	0.15	2.00
		30x30	0.25	2.10		820	30x25	0.15	2.00
		35x25	0.25	2.20			22x45	0.15	2.10
	2200	25x45	0.25	2.20			25x35	0.15	2.00
		30x35	0.25	2.30	200(250)	1000	30x30	0.15	2.10
		35x30	0.25	2.50			35x25	0.15	2.00
	2700	25x50	0.25	2.60		1200	25x40	0.15	2.30
		30x40	0.25	2.70			30x35	0.15	2.40
	3300	30x45	0.25	3.00		1500	25x50	0.15	2.60
		35x35	0.25	3.10		1800	30x40	0.15	2.70
	3900	30x50	0.25	3.40		220	35x30	0.15	2.50
		35x40	0.25	3.40		370	30x45	0.15	3.10
	4700	35x50	0.25	4.00		330	35x35	0.15	2.80
160(200)	220	22x25	0.15	1.10			30x50	0.15	3.40
	270	22x25	0.15	1.20		390	35x40	0.15	3.20
	330	22x25	0.15	1.30			35x50	0.15	3.80
	390	22x30	0.15	1.50		470	22x25	0.15	0.68
		25x25	0.15	1.50			22x30	0.15	0.94



SNAP-IN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

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200(250)	560	22x30	0.15	1.10	350(400)	150	22x35	0.20	0.94
		25x25	0.15	1.10			25x30	0.20	0.94
		22x35	0.15	1.20		180	22x40	0.20	1.10
		22x40	0.15	1.40			30x25	0.20	1.10
	680	25x30	0.15	1.40		220	22x45	0.20	1.20
		30x25	0.15	1.50			25x35	0.20	1.20
	820	22x45	0.15	1.60			30x30	0.20	1.20
		25x35	0.15	1.60		270	25x45	0.20	1.40
		25x40	0.15	1.80			30x35	0.20	1.40
	1000	30x30	0.15	1.80		330	25x50	0.20	1.60
		35x25	0.15	2.40			35x30	0.20	1.60
	1200	25x45	0.15	2.00		390	30x40	0.20	1.70

	1500	30x35	0.15	2.00			35x35	0.20	1.80	
250(300)	100	30x40	0.15	2.30		470	30x45	0.20	2.00	
	180	35x30	0.15	2.60			35x40	0.20	2.00	
	220	22x30	0.15	1.10			35x45	0.20	2.30	
		25x25	0.15	1.10			680	35x50	0.20	2.60
	270	22x35	0.15	1.20			820	35x60	0.20	2.80
	330	22x40	0.15	1.40			68	22x25	0.20	0.55
		25x30	0.15	1.40			82	22x25	0.20	0.65
		30x25	0.15	1.50			100	22x30	0.20	0.70
	390	22x45	0.15	1.60				25x25	0.20	0.70
		25x35	0.15	1.60	120	22x30	0.20	0.79		
	470	22x50	0.15	1.80	150	22x35	0.20	0.90		
		25x40	0.15	1.80		25x30	0.20	0.89		
		30x30	0.15	1.80	180	22x40	0.20	1.00		
		35x25	0.15	2.40		25x30	0.20	1.00		
	560	25x45	0.15	2.00	220	22x50	0.20	1.10		
		30x35	0.15	2.00	270	25x40	0.20	1.20		
	680	30x40	0.15	2.30		25x45	0.20	1.30		
		35x30	0.15	2.60	30x30	0.20	1.50			
	820	30x45	0.15	2.60	330	25x45	0.20	1.60		
		35x35	0.15	2.60		30x35	0.20	1.70		
	1000	35x40	0.15	3.00	390	35x30	0.20	1.80		
1200	35x45	0.15	3.40	30x40		0.20	1.90			
315 (365)	100	22x25	0.20	0.67	420(470)	470	35x35	0.20	2.10	
	150	22x30	0.20	0.85		560	35x40	0.20	2.30	
		25x25	0.20	0.85		680	35x45	0.20	2.70	
	180	22x35	0.20	0.96		820	35x50	0.20	3.10	
		25x30	0.20	0.96		1000	35x60	0.20	3.70	
	220	22x40	0.20	1.10		100	22x30	0.20	0.71	
		25x35	0.20	1.10			25x25	0.20	0.72	
		30x25	0.20	1.10		120	22x35	0.20	0.81	
	270	22x45	0.20	1.20			25x30	0.20	0.82	
		25x40	0.20	1.30		150	25x30	0.20	0.96	
		30x30	0.20	1.30			25x35	0.20	1.10	
		35x25	0.20	1.30		180	30x30	0.20	1.20	
	330	25x45	0.20	1.40			25x45	0.20	1.20	
		30x35	0.20	1.40		220	30x30	0.20	1.30	
	390	25x50	0.20	1.60			270	25x45	0.20	1.30
		30x40	0.20	1.60		30x35		0.20	1.40	
		35x30	0.20	1.60		330	30x40	0.20	1.70	
	470	30x45	0.20	1.80		390	30x45	0.20	1.80	
		35x35	0.20	1.80			35x35	0.20	1.90	
	560	30x50	0.20	2.00		470	30x50	0.20	2.10	
		35x40	0.20	2.00			35x40	0.20	2.20	
680	35x45	0.20	2.30	560	35x45	0.20	2.40			
350(400)	82	22x25	0.20	0.64	680	35x50	0.20	2.80		
	100	22x25	0.20	0.80	820	35x60	0.20	3.20		
	120	22x30	0.20	0.82	1000	40x60	0.20	4.00		
		25x25	0.20	0.81	450(500)	68	22x25	0.20	0.57	



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450(500)	82	22x30	0.20	0.68	450(500)	820	35x60	0.20	3.20
	100	25x25	0.20	0.73		1000	35x70	0.20	4.20
	120	22x35	0.20	0.80	500(550)	100	25x30	0.25	0.90
		25x30	0.20	0.83		120	25x35	0.25	1.00
	150	22x45	0.20	0.95		150	25x40	0.25	1.10
		25x35	0.20	0.95		180	30x30	0.25	1.20
	180	25x40	0.20	1.10			25x45	0.25	1.40
		30x30	0.20	1.10			30x35	0.25	1.30
	220	25x45	0.20	1.20		220	25x50	0.25	1.60
		30x35	0.20	1.30			30x40	0.25	1.50
	270	30x40	0.20	1.50		270	30x45	0.25	1.80
	330	30x45	0.20	1.70		330	35x35	0.25	2.00
	390	35x40	0.20	1.90		390	35x40	0.25	2.30
	470	30x50	0.20	2.20		470	35x50	0.25	2.60
	560	35x50	0.20	2.40		560	35x55	0.25	2.90
	680	35x55	0.20	2.80		680	35x65	0.25	3.20