

CW Series Long life, high ripple current

CW系列

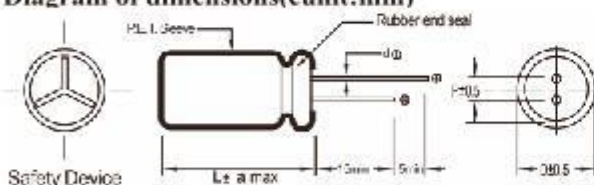
Features

- Load Life: 105°C/5000hours.
- Suitable for slim application
- High ripple current
- For detail specifications, please refer to Engineering Bulletin
- RoHS Compliant

Specifications

Item	Performance Characteristics					
Operating Temp. Range	-25~+105℃					
Rated Voltage Range	250 to 450 VDC					
Capacitance Range	10 to 150 μF					
Capacitance tolerance	±20% (120Hz, 20℃)					
Leakage Current	I ≤ 0.03CV (μA) (After 2 minute with rated working voltage applied.) I = Leakage Current(μA) C = Rated Capacitance V = Rated voltage(V)					
Dissipation Factor(Tan δ) (max, 120Hz, 20℃)	W.V(VDC)	250	350	400	420	450
	D.F(%)	15	15	15	20	20
Low Temp. Characteristics (Max Impedance Ratio)	W.V(VDC)	250	350	400	420	450
	Z _{-25℃} /Z _{+25℃}	3	8	8	8	8
Load Life	Test conditions Duration time: 5000hours Ambient temperature: +105℃ Applied voltage: Rated DC working voltage After test requirements at +20℃ Capacitance change: ≤ ±20% of the initial measured value Dissipation factor: ≤ 200% of the initial specified value Leakage current: ≤ the initial specified value					
Shelf Life	Test conditions Duration time: 1000 hrs Ambient temperature: +105℃ Applied voltage: None After test requirements at +20℃ : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30minutes					
Industrial Standard	JIS C-5101-4(IEC 60384-4)					

Diagram of dimensions(cunit:mm)



ΦD	8	10	13
Φd	0.6		
F	3.5	5.0	5.0
L	L ± 1.5max	L ± 2.0max	

Multiplier for ripple current vs frequency

Frequency(Hz)		60	120	400	1K	100K
Coefficient	250~350WV	0.8	1.00	1.20	1.30	1.40
	400~450WV	0.8	1.00	1.25	1.40	1.50

Multiplier for ripple current vs temperature

Temp.(℃)	60	85	105
Multiplier	2.0	1.65	1.0

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**● Case Size**

Cap(μF)	250(300)		350(400)		400(450)		420(480)		450(500)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
15			8*30	110	8*30	120	8*30	100	8*35	120
22	8*30	130	8*35	150	8*35	160	8*40	180	8*45	160
									10*30	150
33	8*35	170	8*45	195	8*45	250	10*35	230	10*40	220
					10*30	250			10*45	235
									10*50	250
39	8*40	200	10*40	280	8*50	280	10*45	275	10*45	260
					10*40	300	13*30	275	10*50	290
									13*35	290
47	8*45	220	10*45	330	10*45	350	10*45	330	10*55	350
					13*30	330	13*35	360	13*35	350
56	10*35	260	10*50	380	10*50	400	10*55	420	13*35	400
	10*40	300			13*30	380	13*35	410	13*40	425
					13*35	420				
68	10*40	350	13*35	425	13*35	440	13*40	450	13*45	470
			13*40	450	13*40	460			13*50	500
82	10*45	480	13*40	500	13*45	520	13*45	500	13*50	530
100	10*50	550	13*50	520	13*50	580	13*50	600		
120	13*40	570	13*60	680						
150	13*45	620								

Ripple Current (mA,rms) at 105°C, 120 Hz

- For special designing requirement, please contact us.