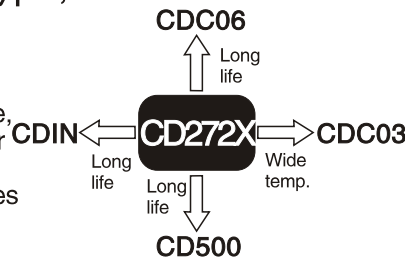


CD272X Screw Terminal Type, Standard Series

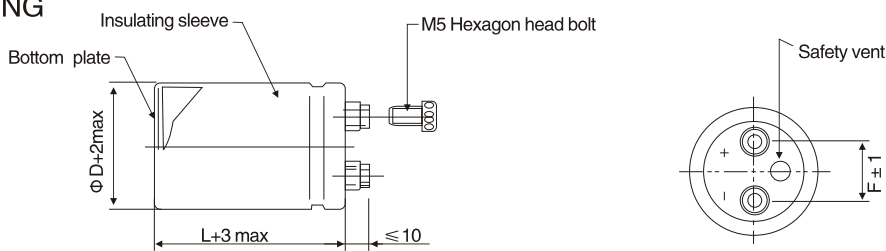
- Small case size, high rated voltage, capacitance and ripple current, stable and reliable performance, forming complete sets of unclear station, suited for use in electronic and industrial such as computer, programming control exchanger for power supplies filtering and energy storage



Specifications

Item	Characteristics																																																					
Operating Temperature Range	WV ≤ 100: -40°C ~ +85°C	WV ≥ 160: -25°C ~ +85°C																																																				
Rated Voltage Range	10~450V.DC																																																					
Nominal Capacitance Range	220 μ F~680000 μ F																																																					
Capacitance Tolerance	M (± 20%); T (-10%~+50%) (20°C, 120Hz)																																																					
Leakage Current	I ≤ 0.01CV (μ A) or 15mA, whichever is smaller. C: Nominal capacitance (μ F) V: Rated voltage (V) (20°C, after 5 minutes)																																																					
Dissipation Factor (Max) (20°C, 120Hz)	<table border="1"> <thead> <tr> <th>φ D \ WV</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160~450</th> </tr> </thead> <tbody> <tr> <td>35</td> <td>0.80</td> <td>0.60</td> <td>0.50</td> <td>0.40</td> <td>0.30</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>50</td> <td>1.50</td> <td>1.00</td> <td>0.80</td> <td>0.60</td> <td>0.50</td> <td>0.40</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>63.5</td> <td>2.00</td> <td>1.50</td> <td>1.00</td> <td>0.80</td> <td>0.60</td> <td>0.50</td> <td>0.35</td> <td>0.25</td> </tr> <tr> <td>75、90</td> <td></td> <td></td> <td></td> <td>1.00</td> <td>0.60</td> <td>0.50</td> <td>0.35</td> <td>0.25</td> </tr> </tbody> </table>									φ D \ WV	10	16	25	35	50	63	100	160~450	35	0.80	0.60	0.50	0.40	0.30	0.25	0.25	0.25	50	1.50	1.00	0.80	0.60	0.50	0.40	0.25	0.25	63.5	2.00	1.50	1.00	0.80	0.60	0.50	0.35	0.25	75、90				1.00	0.60	0.50	0.35	0.25
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Low Temperature Stability (Impedance Ratio) (120Hz)	<table border="1"> <thead> <tr> <th>WV</th> <th>10~16</th> <th>25~100</th> <th>160</th> <th>250~450</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>—</td> <td>—</td> <td>4</td> <td>7</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>5</td> <td>4</td> <td>—</td> <td>—</td> </tr> </tbody> </table>									WV	10~16	25~100	160	250~450	Z(-25°C)/Z(+20°C)	—	—	4	7	Z(-40°C)/Z(+20°C)	5	4	—	—																														
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Load Life	After 2000 hours' application of rated voltage with rated ripple current at 85°C, the capacitors shall meet the following requirement: <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>Within ± 20% of the initial value .</td> </tr> <tr> <td>Dissipation factor</td> <td>Not more than 200% of the initial specified value.</td> </tr> <tr> <td>Leakage current</td> <td>Not more than the initial specified value.</td> </tr> </tbody> </table>									Capacitance change	Within ± 20% of the initial value .	Dissipation factor	Not more than 200% of the initial specified value.	Leakage current	Not more than the initial specified value.																																							
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Shelf Life	After storage for 1000 hours at +85°C, the capacitors shall meet the requirement of load life above .																																																					
Rated Ripple Current & Frequency Multipliers	<table border="1"> <thead> <tr> <th>WV \ Freq.</th> <th>50Hz</th> <th>60Hz</th> <th>120Hz</th> <th>1kHz</th> <th>10kHz</th> <th>≥50kHz</th> </tr> </thead> <tbody> <tr> <td>16~100</td> <td>0.88</td> <td>0.90</td> <td>1.00</td> <td>1.15</td> <td>1.15</td> <td>1.15</td> </tr> <tr> <td>160~250</td> <td>0.77</td> <td>0.80</td> <td>1.00</td> <td>1.50</td> <td>1.60</td> <td>1.63</td> </tr> <tr> <td>315~450</td> <td>0.88</td> <td>0.90</td> <td>1.00</td> <td>1.15</td> <td>1.15</td> <td>1.15</td> </tr> </tbody> </table>									WV \ Freq.	50Hz	60Hz	120Hz	1kHz	10kHz	≥50kHz	16~100	0.88	0.90	1.00	1.15	1.15	1.15	160~250	0.77	0.80	1.00	1.50	1.60	1.63	315~450	0.88	0.90	1.00	1.15	1.15	1.15																	
WV \ Freq.	50Hz	60Hz	120Hz	1kHz	10kHz	≥50kHz																																																
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DRAWING



φ D	35						50					63.5				75				90						
L	50	60	65	72	80	90	65	72	80	90	100	115	72	80	90	100	115	130	140	100	115	130	140	115	130	140
F	13						22					28				32				32						

mm

CD272X Series

■ DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	10		16		25		35		50		63	
3300											35 × 50	1.90
4700							35 × 50	2.40	35 × 50	2.30	35 × 50	2.50
6800					35 × 50	2.60	35 × 50	2.80	35 × 50	2.70	35 × 50	3.0
10000			35 × 50	3.0	35 × 50	3.20	35 × 50	3.40	35 × 50	3.30	35 × 50	3.60
15000	35 × 50	3.20	35 × 50	3.50	35 × 50	3.70	35 × 50	4.20	35 × 50	4.0	35 × 72	4.90
22000	35 × 50	3.80	35 × 50	4.10	35 × 50	4.50	35 × 72	5.70	35 × 72	5.50	35 × 90	5.30
33000	35 × 50	4.30	35 × 50	5.0	35 × 65	5.90	35 × 80	7.20	35 × 90	6.20	50 × 65	6.40
47000	35 × 50	5.20	35 × 65	6.40	35 × 80	7.70	50 × 72	7.90	50 × 72	7.30	50 × 80	8.40
68000	35 × 65	6.70	35 × 80	8.40	50 × 65	7.90	50 × 80	9.80	50 × 90	9.30	63.5 × 90	9.90
100000	35 × 80	8.80	50 × 65	8.60	50 × 80	10.30	50 × 115	13.30	50 × 115	12.0	63.5 × 100	12.70
150000	50 × 65	10.80	50 × 80	11.30	50 × 115	14.10	63.5 × 100	14.90	63.5 × 115	14.70	75 × 100	16.60
220000	50 × 80	11.20	50 × 115	15.30	63.5 × 100	16.10	75 × 115	18.10	75 × 115	19.30		
330000	63.5 × 80	13.10	63.5 × 115	16.80	63.5 × 140	21.90						
470000	63.5 × 100	16.70	63.5 × 140	21.30								
680000	63.5 × 130	21.70										

——— Rated ripple current(A rms)(85°C,120Hz)
 ——— Case size $\Phi D \times L$ (mm)

μF \ WV	100		160		250		350		400		450	
220											35 × 50	1.40
330									35 × 50	1.70	35 × 60	1.80
470							35 × 50	2.10	35 × 60	2.0	35 × 72	2.20
680					35 × 50	2.0	35 × 60	2.20	35 × 80	2.90	50 × 65	2.80
1000			35 × 50	1.80	35 × 72	2.70	35 × 80	3.0	50 × 65	3.50	50 × 72	3.60
1500	35 × 50	1.70	35 × 60	2.0	50 × 65	3.70	50 × 65	4.0	50 × 80	4.60	63.5 × 72	4.80
2200	35 × 50	2.10	35 × 72	3.10	50 × 72	4.70	50 × 80	4.90	50 × 100	6.0	63.5 × 90	6.20
3300	35 × 50	2.60	50 × 65	4.20	50 × 90	6.10	50 × 100	6.50	63.5 × 100	8.10	63.5 × 115	8.20
4700	35 × 72	3.50	50 × 72	5.20	63.5 × 80	7.80	63.5 × 100	8.50	63.5 × 130	10.50	75 × 130	10.90
6800	50 × 65	4.60	63.5 × 72	6.80	63.5 × 115	10.50	63.5 × 130	11.10	75 × 140	13.80		
10000	50 × 65	5.60	63.5 × 90	8.80	75 × 115	12.80	75 × 140	14.70				
15000	63.5 × 70	7.0	63.5 × 115	11.60	75 × 140	16.60	90 × 140	19.10				
22000	63.5 × 80	8.70	75 × 115	14.50								
33000	63.5 × 115	11.90	90 × 130	19.40								
47000	75 × 115	14.20	90 × 140	21.60								
68000	90 × 115	18.0										

←—— Rated ripple current(A rms)(85°C,120Hz)
 ——— Case size $\Phi D \times L$ (mm)