

CD500 Screw Terminal Type, Long Life Series

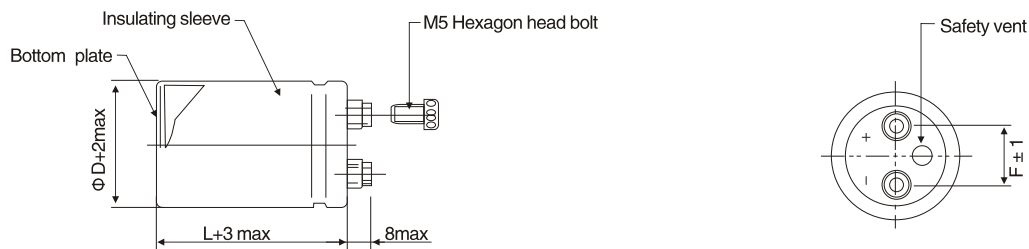
- Screw terminal type, high ripple current, overvoltage Application, high ripple longer life, suited for use in Industrial power supplies for laser, etc
- Load life of 5000 hours at 85°C



Specifications

Item	Characteristics						
Operating Temperature Range	-25°C ~ +85°C						
Rated Voltage Range	500V.DC						
Nominal Capacitance Range	680 μ F ~ 12000 μ F						
Capacitance Tolerance	M (± 20%) (20°C, 120Hz)						
Leakage Current	$I \leq 3\sqrt{CV}$ (μ A) or 5(mA), whichever is smaller. C: Nominal capacitance (μ F) V: Rated voltage(V) (20°C, after 5 minutes)						
Dissipation Factor (Max)	$\tan \delta \leq 0.20$ (20°C, 120Hz)						
Low Temperature Stability (Impedance Ratio)	$Z(-25^\circ\text{C})/Z(+20^\circ\text{C}) \leq 8$						
Load Life	After 5000 hours' application of rated voltage with rated ripple current at 85°C, the capacitors shall meet the following requirement: <table border="1" style="width: 100%; margin-top: 5px;"> <tr> <td>Capacitance change</td> <td>Within ± 20% of the initial value .</td> </tr> <tr> <td>Dissipation factor</td> <td>Not more than 300% of the initial specified value.</td> </tr> <tr> <td>Leakage current</td> <td>Not more than the initial specified value.</td> </tr> </table>	Capacitance change	Within ± 20% of the initial value .	Dissipation factor	Not more than 300% of the initial specified value.	Leakage current	Not more than the initial specified value.
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Dissipation factor	Not more than 300% of the initial specified value.						
Leakage current	Not more than the initial specified value.						
Shelf Life	After storage for 1000 hours at +85°C, the capacitors shall meet the requirement of load life above .						

DRAWING



ΦD	50			65			75			90				100	
	L	F		L	F		L	F		L	F		L	F	
	80	22	110	90	28	130	110	32	130	32	150	170	190	190	220
															41.5

mm

CD500 Series

■ DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item μF	500	
	$\Phi D \times L$ (mm)	Rated ripple current (A rms)
		85°C, 120Hz
680	50 × 80	2.10
820	50 × 100	3.60
1000	50 × 110	4.20
1200	65 × 90	4.80
1500	65 × 90	5.50
1800	65 × 110	6.50
2200	65 × 130	7.70
2700	75 × 110	8.80
3300	75 × 130	10.40
3900	75 × 150	12.10
4700	90 × 130	13.70
5600	90 × 150	15.90
6800	90 × 170	18.50
8200	90 × 190	21.40
10000	100 × 190	23.50
12000	100 × 220	27.80