

CDPA Series

固体电解质电容器

■ Features

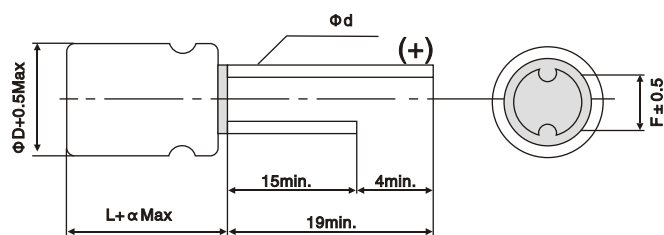
By using Functional Polymer cathode, Frequency & Temp. Characteristics are greatly improved.

- Ultra ESR at a high frequency range.
- Load life of 2000 hours at 105℃.
- Adapted to the RoHS directive(2002/95/EC)
- 功能高分子材料，可替代铝电容使用
- 应用于开关电源BACK UP 电源及DC-DC转换器等
- 105℃寿命2000小时
- 符合ROHS指令

■ Specifications

Item	Characteristics						
Operating Temperature Range	-55℃~+105℃						
Rated Voltage Range	2.5V~25V						
Capacitance Tolerance	M (± 20%) (20℃, 120Hz)						
Leakage Current	Not more than the values in Table 1						
Dissipation Factor	Not more than the values in Table 1						
ESR	Not more than the values in Table 1						
Characteristics of Temperature Impedance Ratio	Z+105℃/Z+20℃: =0.75~1.25 (100kHz) Z-55℃/Z+20℃: =0.75~1.25						
Load Life	After 2000 hours application of rated voltage at 105℃, the capacitors shall meet the following requirement: <table border="1"> <tr> <td>Capacitance change</td><td>Within ± 20% of the value before test</td></tr> <tr> <td>Dissipation factor</td><td>Not to exceed 150% of the value specified</td></tr> <tr> <td>Leakage current</td><td>Not to exceed the value specified</td></tr> </table>	Capacitance change	Within ± 20% of the value before test	Dissipation factor	Not to exceed 150% of the value specified	Leakage current	Not to exceed the value specified
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Leakage current	Not to exceed the value specified						
Moisture Resistance (1000h, Stored at 60℃, 90 to 95%R.H)	<table border="1"> <tr> <td>Capacitance change</td><td>Within ± 20% of the value before test</td></tr> <tr> <td>Dissipation factor</td><td>Not to exceed 150% of the value specified</td></tr> <tr> <td>Leakage current</td><td>Not to exceed the value specified</td></tr> </table>	Capacitance change	Within ± 20% of the value before test	Dissipation factor	Not to exceed 150% of the value specified	Leakage current	Not to exceed the value specified
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■ Dimensions



(mm)			
$\Phi D \times L$	Φd	F	α
8 × 11.5	0.6	3.5	0.5
10 × 12.5	0.6	5.0	0.5

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■ Table 1: CDPA Series Characteristics List

WV	μF	ΦD(mm)	L(mm)	ESR(mΩ)max at 20℃ 100kHz	Ripple current (mA)max at 105℃ 100kHz	Dissipation factor at 20℃ 120Hz	Leakage current (μA)max after 2 minutes
2.5	680	8	11.5	7	5600	0.08	255
	820	8	11.5	7	5600	0.08	307.5
	1500	10	12.5	7	6100	0.08	562.5
4	560	8	11.5	7	5600	0.08	179.2
	680	8	11.5	7	5600	0.08	217.6
	820	10	12.5	7	6100	0.08	262.4
	1000	10	12.5	7	6100	0.08	320
	1200	10	12.5	7	6100	0.08	480
	1500	10	12.5	7	6100	0.08	600
6.3	150	8	11.5	7	5600	0.07	47.2
	220	8	11.5	7	5600	0.07	69.3
	330	8	11.5	7	6100	0.07	103.9
	390	8	11.5	7	5600	0.08	147.4
	470	8	11.5	7	5600	0.08	177.6
	680	10	12.5	7	6100	0.08	257
	820	10	12.5	7	6100	0.08	310
	1000	10	12.5	7	6100	0.08	378
	1200	10	12.5	7	6100	0.08	453.6
	1500	10	12.5	7	6100	0.08	567
	100	8	11.5	7	5600	0.07	40
10	150	8	11.5	7	5600	0.07	60
	220	10	12.5	7	6100	0.07	88
	330	10	12.5	7	6100	0.07	132
	470	10	12.5	7	6100	0.08	188
	560	10	12.5	7	6100	0.08	224
	680	10	12.5	7	6100	0.08	272
	820	10	12.5	7	6100	0.08	328
	1000	10	12.5	7	6100	0.08	400
	68	8	11.5	10	5600	0.06	44
16	100	8	11.5	10	5600	0.06	64
	150	10	12.5	10	6100	0.06	96
	220	10	12.5	10	6100	0.07	140
	330	10	12.5	8	6100	0.07	211
	470	10	12.5	8	6100	0.07	300
	100	8	11.5	15	3800	0.07	80
20	150	8	11.5	15	3800	0.07	120
	220	10	12.5	15	4100	0.07	176
	68	8	12.5	24	3000	0.07	68
25	100	10	12.5	20	3600	0.07	100
	150	10	12.5	20	3600	0.07	150