

CDPB Series

低ESR固体电解质铝电解电容器

■ Features

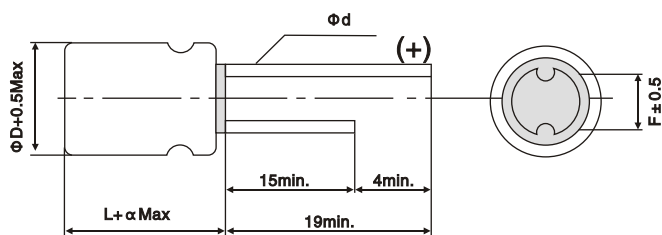
By using Functional Polymer cathode, Frequency & Temp. Characteristics are greatly improved.

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

■ Specifications

Item	Characteristics						
Operating Temperature Range	-55°C~+105°C						
Rated Voltage Range	2.5V~6.3V						
Capacitance Tolerance	M (± 20%) (20°C, 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°C/Z+20°C: =0.75~1.25 (100kHz) Z-55°C/Z+20°C: =0.75~1.25						
Load Life	After 2000 hours application of rated voltage at 105°C, the capacitors shall meet the following requirement: <table border="1" style="width: 100%; border-collapse: collapse;"> <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
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						
Moisture Resistance (1000h, Stored at 60°C, 90 to 95%R.H)	<table border="1" style="width: 100%; border-collapse: collapse;"> <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
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						

■ Dimensions



(mm)			
ΦD×L	Φd	F	α
8×11.5	0.6	3.5	0.5
10×12.5	0.6	5.0	0.5

CDPB Series

■ Table 1: CDPB Series Characteristics List

WV	μF	ΦD(mm)	L(mm)	ESR(mΩ)max at20°C 100kHz	Ripple current (mA)max at 105°C 100kHz	Dissipation factor at 20°C 120Hz	Leakage current (μA)max after 2 minutes
2.5	680	8	11.5	5	6630	0.10	255
	820	8	11.5	5	6630	0.10	307.5
	1500	10	12.5	5	7220	0.10	562.5
	2200	10	12.5	5	7220	0.10	825
4	560	8	11.5	5	6630	0.10	224
	820	10	12.5	5	7220	0.10	328
	1200	10	12.5	5	7220	0.10	480
	1500	10	12.5	5	7220	0.10	600
6.3	390	8	11.5	5	6630	0.10	245.7
	560	8	11.5	5	6630	0.10	352.8
	680	10	12.5	5	7220	0.10	428.4
	820	10	12.5	5	7220	0.10	516.6
	1000	10	12.5	5	7220	0.10	630
	1200	10	12.5	5	7220	0.10	756
	1500	10	12.5	5	7220	0.10	945