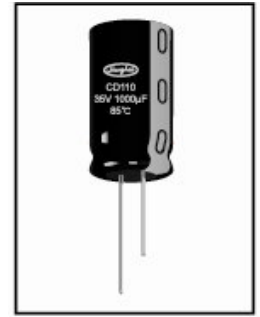
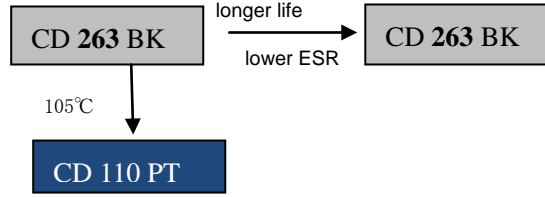


CD 110 PT Series



2000h at 85°C

- Standard 85°C
- Load life of 2000 hours at 85°C
- High and stable quality
- Small size and low cost
- For general consumer electronic products application

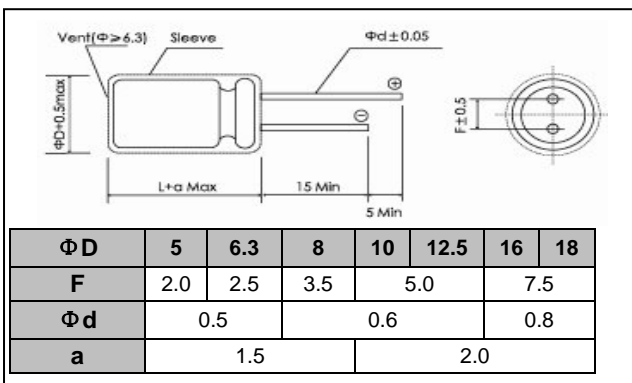


Items	Characteristics																																																									
Operating Temperature Range(°C)	-40 ~ +85	-25 ~ +85																																																								
Voltage Range (V)	6.3~ 250	350 ~ 500																																																								
Capacitance Range(µF)	0.1 ~ 22000																																																									
Capacitance Tolerance (20°C,120Hz)	±20%																																																									
Leakage Current (µA)	6.3~100V	160~500V																																																								
	After 1 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 3, whichever is greater	After 2 minutes at 20°C application of rated voltage, leakage current is not more than 0.03CV+10																																																								
C:Nominal Capacitance(µF) V:Rated Voltage(V)																																																										
Dissipation Factor (20°C, 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> <th>500</th> </tr> </thead> <tbody> <tr> <td>Tan δ(max)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.12</td> <td>0.15</td> <td>0.20</td> <td>0.23</td> <td>0.23</td> <td>0.23</td> <td>0.23</td> </tr> </tbody> </table>														Rated Voltage(V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	500	Tan δ(max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.12	0.15	0.20	0.23	0.23	0.23	0.23												
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When nominal capacitance is over 1000µF ,tan δ shall be added 0.02 to the listed value with increase of every 1000µF																																																										
Stability at Low Temperature (Impedance Ratio at 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> <th>500</th> </tr> </thead> <tbody> <tr> <td>Z_{-25°C}/ Z_{+20°C}</td> <td>4</td> <td>3</td> <td colspan="3">2</td> <td colspan="3">3</td> <td colspan="3">6</td> <td colspan="3"></td> </tr> <tr> <td>Z_{-40°C}/ Z_{+20°C}</td> <td>8</td> <td>6</td> <td>4</td> <td colspan="3">3</td> <td colspan="3">8</td> <td colspan="3">-</td> </tr> </tbody> </table>														Rated Voltage(V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	500	Z _{-25°C} / Z _{+20°C}	4	3	2			3			6						Z _{-40°C} / Z _{+20°C}	8	6	4	3			8			-		
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	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	$\phi \leq 8$:3000h $\phi \geq 10$:4000h	$\phi \leq 8$:35000h $\phi \geq 10$:50000h	2000h	2000h	1000h
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value
Capacitance Change	Within ±50% of initial value		Within ± 20% of initial value	Within ±20% of initial value	Within ±20% of initial value
Dissipation Factor	Not more than 300% of specified value		Not more than 200% of specified value	Not more than 150% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U_R I_R 85°C	U_R $1.4 \times I_R$ 40°C	U_R I_R 85°C	U_R $I_R = 0$ 85°C	After test: U_R to be applied for 30min>24h before measurement

Dimensions

mm



Frequency Coefficient

Rated Voltage(v)	Frequency CV(µFv)	50-60 Hz	120 Hz	1kHz	10K HZ	100K Hz				
		6.3~16	ALL CV value					0.80	1.00	1.10
25~35	≤1000	0.80	1.00	1.50	1.70	1.70				
	>1000	0.80	1.00	1.20	1.30	1.30				
50~100	≤1000	0.80	1.00	1.60	1.90	1.90				
	>1000	0.80	1.00	1.20	1.30	1.30				
160~500	ALL CV value					0.80	1.00	1.30	1.50	1.60

Temperature Coefficient

Temperature(°C)	+70	+85
Coefficient	1.35	1

Lifetime Diagram

