

CP (CD298型)

- ◎ 高纹波电流, High ripple current.
- ◎ 适用于开关电源, Best for switching power supplies.
- ◎ 加纹波电流5000小时寿命, Load life with ripple current: 105°C 5000 hours.
- ◎ RoHS指令已对应完毕, Adapted to the RoHS directive.

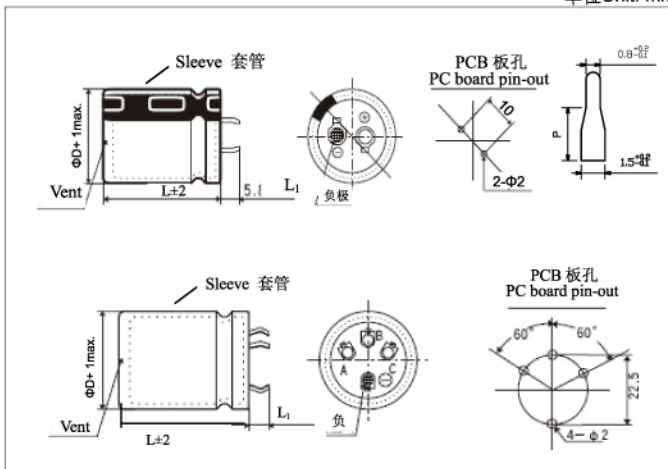


主要技术性能 Specifications

项目 Item	特性 Performance Characteristics																																				
使用温度范围 Operating temperature range	-40°C ~ +105°C	-25°C ~ +105°C																																			
额定电压范围 Rated voltage range	10 ~ 100V	160 ~ 500V																																			
标称电容容量范围 Nominal capacitance range	82~4700 µF																																				
标称电容容量允许偏差 Capacitance tolerance	±20% (120Hz, +20°C)																																				
漏电流 Leakage current	$I \leq 3\sqrt{CV}$ (µA) 5分钟 (at 20°C, after 5minutes)																																				
损耗角正切值 (tg δ) Dissipation factor (+20°C, 120Hz)	<table border="1"> <thead> <tr> <th>U_R (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63~100</th> <th>160~400</th> <th>420~500</th> </tr> </thead> <tbody> <tr> <td>tg δ</td> <td>0.60</td> <td>0.45</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> </tr> </tbody> </table> <p>容量大于33000 µF者, 每增加0000 µF, 其损耗角正切值增加0.1 For capacitance value >33000 µF, add 0.1 per another 10000 µF</p>		U _R (V)	10	16	25	35	50	63~100	160~400	420~500	tg δ	0.60	0.45	0.30	0.25	0.20	0.15	0.15	0.20																	
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温度特性 Temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th>U_R (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63~100</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>4</td> <td>3</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>15</td> <td>15</td> <td>15</td> <td>10</td> <td>8</td> <td>6</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>U_R (V)</th> <th>160</th> <th>250</th> <th>315</th> <th>350</th> <th>400</th> <th>450~500</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> </tr> </tbody> </table>		U _R (V)	10	16	25	35	50	63~100	Z-25°C/Z+20°C	6	6	6	6	4	3	Z-40°C/Z+20°C	15	15	15	10	8	6	U _R (V)	160	250	315	350	400	450~500	Z-25°C/Z+20°C	8	8	8	8	8	8
U _R (V)	10	16	25	35	50	63~100																															
Z-25°C/Z+20°C	6	6	6	6	4	3																															
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U _R (V)	160	250	315	350	400	450~500																															
Z-25°C/Z+20°C	8	8	8	8	8	8																															
耐久性 Load life	<p>+105°C施加带额定纹波电流的额定电压5000小时, 恢复16小时后: After applying rated voltage with specified ripple current for 5000 hours at +105°C and then resumed for 16 hours: 电容变化率 Capacitance change: ±20%初始测量值以内 ±20% of the initial measured value 漏电流 Leakage current: ≤初始规定值 ≤the initial specified value 损耗角正切值 Dissipation factor: ≤2倍初始规定值 ≤2 times of the initial specified value</p>																																				
高温贮存 Shelf life	<p>+105°C, 1000小时贮存后, 加额定工作电压处理30分钟, 恢复16小时后: After storage for 1000 hours at +105°C, U_R to be applied for 30 minutes and then resumed for 16 hours: 电容变化率 Capacitance change: ±15%初始测量值以内 ±15% of the initial measured value 漏电流 Leakage current: ≤初始规定值 ≤the initial specified value 损耗角正切值 Dissipation factor: ≤1.5倍初始规定值 ≤1.5 times of the initial specified value</p>																																				

外形图 Case table

单位Unit: mm 频率的修正系数 Frequency coefficient



U (V)	频率 (Hz)				
	50	100(120)	1K	10K	100K
10 ~ 50	0.88	1.00	1.10	1.15	1.15
63 ~ 100	0.81	1.00	1.11	1.18	1.2
160 ~ 450	0.707	1.00	1.14	1.14	1.2

■ 尺寸 Dimensions

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
2200	222							22x25	1.10
3300	332							22x30	1.42
								25x25	1.41
3900	392					22x25	1.31	22x35	1.58
								25x30	1.58
4700	472					22x30	1.51	22x40	1.78
						25x25	1.51	30x25	1.77
5600	562			22x25	1.44	22x35	1.70	25x35	1.98
								30x30	1.98
								35x25	2.03
6800	682	22x25	1.30	22x30	1.66	22x40	1.92	22x50	2.26
				25x25	1.66	25x30	1.87	25x40	2.24
						30x25	1.90		
8200	822			22x35	1.87	25x35	2.14	25x50	2.57
						30x30	2.16	30x35	2.50
						35x25	2.19	35x30	2.55
10000	103	22x30	1.65	22x40	2.12	22x50	2.45	30x40	2.86
		25x25	1.64	25x30	2.07	25x40	2.43	35x35	2.88
				30x25	2.11				
12000	123	22x35	1.85	25x35	2.37	25x50	2.78	30x50	3.32
		25x30	1.85	30x30	2.37	30x35	2.70	35x40	3.30
		30x25	1.89	35x25	2.42	35x30	2.76		
15000	153	22x40	2.12	22x50	2.74	30x40	3.13		
		25x35	2.16	25x40	2.71	35x35	3.16		
18000	183	22x50	2.45	25x50	3.11	35x50	3.64		
		25x40	2.43	30x35	3.02	35x40	3.61	35x50	4.29
		30x30	2.37	35x30	3.09				
		35x25	2.42						
22000	223	30x35	2.73	30x40	3.46				
		35x30	2.79	35x35	3.49				
27000	273	25x50	3.11	30x50	4.07	35x50	4.70		
		30x40	3.13	35x40	4.04				
33000	333	35x35	3.49						
39000	393	30x50	3.99	35x50	5.16				
		35x40	3.96						
47000	473	35x50	4.62						

Maximum Allowable Ripple Current (A rms)at 105°C 120Hz.

■ 尺寸 Dimensions

Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)			
Cap.(μ F)	Code	Case Size	Ripple current	Case Size	Ripple current	Case Size	Ripple current	Case Size	Ripple current		
390	391							22x25	0.78		
560	561							22x30	0.99		
								25x25	0.98		
680	681					22x25	0.97	22x35	1.12		
820	821					22x30	1.12	22x40	26		
								25x30	1.23		
								30x25	1.25		
1000	102			22x25	1.00	22x35	1.70	25x35	1.41		
								25x25	1.92	30x30	1.42
										35x25	1.45
1200	122			22x30	1.15	22x40	1.42	22x50	1.60		
				25x25	1.15	25x30	1.39	25x40	1.59		
						30x25	1.41	30x35	1.61		
1500	152	22x25	1.02	22x35	1.32	25x35	1.62	25x50	1.86		
								30x40	1.87		
								35x30	1.85		
1800	182	22x30	1.17	22x40	1.49	22x50	1.84	35x35	2.07		
				25x30	1.45	22x40	1.82				
		25x25	1.17	30x25	1.48	30x30	1.78				
						35x25	1.82				
2200	222	22x35	1.33	25x35	1.67	25x50	2.11	30x50	2.40		
				30x30	1.68	30x35	2.05	35x40	2.39		
				35x25	1.71	35x30	2.09				
2700	272	22x40	1.51	22x50	1.92	30x40	2.35	35x50	2.81		
		25x30	1.47	25x40	1.90	35x35	2.37				
		30x25	1.50	30x35	1.93						
3300	332	25x35	1.70	25x50	2.20	30x50	2.75				
		30x30	1.70	35x30	2.18	35x40	2.73				
		35x25	1.74								
3900	392	22x50	1.91	30x40	2.41						
		25x40	1.89	35x35	2.43						
4700	472	30x35	2.11	30x50	2.80	35x50	3.46				
		35x30	2.16	35x40	2.78						
5600	562	25x50	2.38								
		30x40	2.39								
		35x35	2.41								
6800	682	30x50	2.79	35x50	3.55						
		35x40	2.78								
8200	822										
10000	103	35x50	3.57								

Maximum Allowable Ripple Current (A rms)at 105°C 120Hz.

Snap-in

尺寸 Dimensions

Voltage (Code)		160V (2C)		200V (2D)		250V (2E)		315V (2F)	
Cap.(μ F)	Code	Case Size	Ripple current	Case Size	Ripple current	Case Size	Ripple current	Case Size	Ripple current
150	151							22x25	0.80
180	181							22x30	0.92
								25x25	0.94
220	221					22x25	1.01	22x35	1.04
								30x25	1.17
270	271			22x25	1.10	22x30	1.20	22x40	1.18
								25x30	1.19
330	331					25x25	1.32	22x45	1.33
								25x35	1.37
								30x30	1.40
								35x25	1.49
390	391	22x25	1.32	22x30	1.38	22x35	1.44	25x50	1.48
				25x25	1.39	25x30	1.43	25x40	1.52
						30x25	1.51		
470	471			22x35	1.55	22x40	1.62	25x45	1.70
								30x35	1.71
								35x30	1.82
560	561	22x30	1.66	22x40	1.73	22x45	1.80	25x50	1.88
				25x30	1.71	25x35	1.78	30x40	1.92
		25x25	1.68	30x25	1.78	30x30	1.83	35x35	2.00
						35x25	1.91		
680	681	25x35	1.87	22x45	1.81	25x40	2.00	30x50	2.21
		25x30	1.88	25x35	1.87	30x35	2.06		
		30x25	1.96	30x30	1.98	35x30	2.15	35x40	2.29
				35x25	2.10				
820	821	22x40	2.09	22x50	2.18	25x50	2.28	35x45	2.57
				25x40	2.09	30x40	2.33		
				30x35	2.22	35x35	2.38		
1000	102	22x45	2.36	25x45	2.35	30x50	2.68	35x50	2.89
		25x35	2.38	30x40	2.53	35x40	2.72		
		30x30	2.40	35x30	2.61				
		35x25	2.55						
1200	122	25x40	2.66	30x45	2.84	35x45	3.05		
		30x35	2.69	35x35	2.88				
		35x30	2.86						
1500	152	25x50	3.08	35x40	3.34	35x50	3.49		
		30x45	3.17						
		35x35	3.22						
1800	182	30x50	3.53	35x45	3.74				
		35x40	3.66						
2200	222	35x45	4.14						
2700	272	35x50	4.68						

Maximum Allowable Ripple Current (A rms)at 105°C 120Hz.

■ 尺寸 Dimensions

Voltage (Code)		350V (2V)		400V (2G)		420V (2M)		450V (2W)			
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current		
82	820							22x25	0.59		
100	101			22x25	0.66	22x25	0.66	22x30	0.69		
								25x25	0.70		
120	121	22x25	0.72	22x30	0.75	22x30	0.75	22x35	0.77		
						25x25	0.77				
150	151	22x30	0.84	22x35	0.86	22x35	0.86	22x40	0.88		
				30x25	0.86			22x30	0.88		
								30x25	0.93		
180	181	25x25	0.94	22x40	0.96	22x40	0.96	22x50	1.01		
				25x30	0.97	25x30	0.97	25x40	1.03		
				30x25	1.02	30x25	1.02	30x30	1.03		
								35x25	1.10		
220	221	22x35	1.04	22x45	1.09	22x50	1.11	25x45	1.16		
		25x30	1.07			25x40	1.14	30x35	1.17		
		30x25	1.13			25x35	1.12	30x30	1.14	35x30	1.24
								35x25	1.22		
270	271	22x45	1.20	22x50	1.23	25x45	1.29	25x50	1.31		
		25x35	1.24	25x40	1.26	30x35	1.30	30x40	1.33		
		30x30	1.27	30x30	1.27	35x30	1.38	35x35	1.39		
		35x25	1.35								
330	331	22x50	1.36	25x50	1.44	25x50	1.44	30x45	1.51		
		25x40	1.39	30x35	1.43	30x40	1.48				
		30x35	1.43	35x30	1.52	35x35	1.54				
390	391	25x45	1.55	30x40	1.60	30x45	1.64	30x50	1.67		
		30x40	1.60	35x35	1.67	35x40	1.73	35x40	1.73		
		35x30	1.66								
		25x50	1.72	30x45	1.81	30x50	1.84				
470	471	30x45	1.81	35x40	1.90	35x45	1.94	35x50	1.98		
		35x35	1.83								
560	561	30x50	2.00	35x45	2.12	35x50	2.17				
		35x40	2.07								
680	681	35x45	2.34	35x50	2.39						
820	821	35x50	2.62								

Voltage (Code)		500V (2H)	
Cap.(μ F)	Code	Case Size	Ripple Current
220	221	35x45	1.82
330	331	35x50	1.98
470	471	35x55	2.01
680	681	35x65	2.34

Maximum Allowable Ripple Current (A rms)at 105°C 120Hz.