大电解

Large Can Type

CD298

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℃ 5000 hours.

主要技术性能 Specifications

项目 Item	特性 Performance Characteristics	
使用温度范围 Operating temperature range	−40℃~+105℃	−25~+105℃
额定电压范围 Rated voltage range	10~100V	160~450V
标称电容量范围 Nominal capactiance range	80~47000μF	
标称电容量允许偏差 Capacitance tolerance	±20%(120Hz, +20℃)	
漏电流 Leakage current	$I \leq 3\sqrt{CV}$ (μA)5分钟 (at 20℃, after 5minutes)	

损耗角正切值 (tg δ)
Dissipation factor
(+20℃, 120Hz)

Rated voltage(V)	10	16	25	35	50	63~100	160~400	420~450
tg δ	0.60	0.45	0.30	0.25	0.20	0.15	0.15	0.20

容量大于33000μF者，每增加10000μF，其损耗角正切值增加0.1
For capactiance value>10000μF, add 0.1per another 10000μF

温度特性 Temperature Characteristics
(Impedance ratio at 120Hz)

U_R(V)	10	16	25	35	50	63~100
$Z_{-25℃}/Z_{+20℃}$	6	6	6	6	4	3
$Z_{-40℃}/Z_{+20℃}$	15	15	15	10	8	6

U_R(V)	160	250	315	350	400	450
$Z_{-25℃}/Z_{+20℃}$	8	8	8	8	8	8

耐久性
Load life

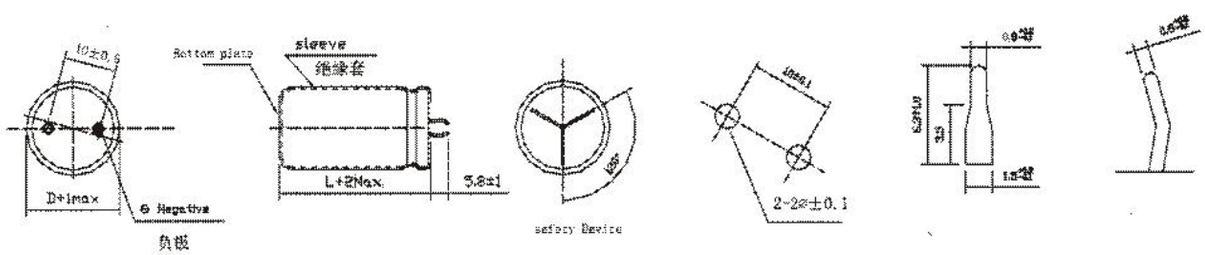
+105℃施加带额定纹波电流的额定电压5000小时，恢复16小时后：
After applying rated voltage with specified ripple current for 5000 hours at+105℃ and then resumed 16 hours:
电容量变化率Capacitance change：±20%初始测量值以内Initial measured value
漏电流 Leakage current : ≤初始规定值Initial specified value
损耗角正切值 Dissipation factor : ≤2倍初始规定值2times Inital specified value

高温贮存
Shelf life

+105℃，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℃, U_R to be applied for 30 minutes and then resumed 16 hours:
电容量变化率Capacitance change：±15%初始测量值以内Initial measured value
漏电流 Leakage current : ≤初始规定值Initial specified value
损耗角正切值 Dissipation factor : ≤1.5倍初始规定值2times Inital specified value

■外形图Case size table

单位Unit: mm



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尺寸 Dimensions

Voltage	10V		16V		25V		35V	
Cap(μ F)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
2200							22 × 25	1.10
3300							22 × 30	1.42
							25 × 25	1.41
3900					22 × 25	1.31	22 × 35	1.58
							25 × 30	1.58
4700					22 × 30	1.51	22 × 40	1.78
					25 × 25	1.51	30 × 25	1.77
5600					22 × 35	1.70	25 × 35	1.98
			22 × 25	1.44			30 × 30	1.98
							35 × 25	2.03
6800	22 × 25	1.30	22 × 30	1.66	22 × 40	1.92	22 × 50	2.26
			25 × 25	1.66	25 × 30	1.87	25 × 40	2.24
					30 × 25	1.90		
8200			22 × 35	1.87	25 × 35	2.14	25 × 50	2.57
					20 × 30	2.16	30 × 35	2.50
					35 × 25	2.19	35 × 30	2.55
10000	22 × 30	1.65	22 × 40	2.12	22 × 50	2.45	30 × 40	2.86
	25 × 25	1.64	25 × 30	2.07	25 × 40	2.43	35 × 35	2.88
			30 × 25	2.11				
12000	22 × 35	1.85	25 × 35	2.37	25 × 50	2.78	30 × 50	3.32
	25 × 30	1.85	30 × 30	2.37	30 × 35	2.70	35 × 40	3.30
	30 × 25	1.89	35 × 25	2.42	35 × 30	2.76		
15000	22 × 40	2.12	22 × 50	2.74	30 × 40	3.13		
	25 × 35	2.16	25 × 40	2.71	35 × 35	3.16		
18000	22 × 50	2.45	25 × 50	3.11	35 × 50	3.64	35 × 50	4.29
	25 × 40	2.43	30 × 35	3.02	35 × 40	3.61		
	30 × 30	2.37	35 × 30	3.09				
	35 × 25	2.42						
22000	30 × 35	2.73	30 × 40	3.46				
	35 × 30	2.79	35 × 35	3.49				
27000	25 × 50	3.11	30 × 50	4.07	35 × 50	4.70		
	30 × 40	3.13	35 × 40	4.04				
33000	35 × 35	3.49						
39000	30 × 50	3.99	35 × 50	5.16				
	35 × 40	3.96						
47000	35 × 50	4.62						

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

大电解

Large Can Type

尺寸 Dimensions

Voltage	50V		63V		80V		100V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
390							22×25	0.78
560							22×30	0.99
							25×25	0.98
680					22×25	0.97	22×35	1.12
820					22×30	1.12	22×40	1.26
							25×30	1.23
							30×25	1.25
1000			22×25	1.00	22×35	1.70	25×35	1.41
					25×25	1.92	30×30	1.42
							35×25	1.45
1200			22×30	1.15	22×40	1.42	22×50	1.60
			25×25	1.15	25×30	1.39	25×40	1.59
					30×25	1.41	30×35	1.61
1500	22×25	1.02			25×35	1.62	25×50	1.86
			22×35	1.32			30×40	1.87
							35×30	1.85
1800	22×30	1.17	22×40	1.49	22×50	1.84	35×35	2.07
	25×25	1.17	25×30	1.45	22×40	1.82		
			30×25	1.48	30×30	1.78		
					35×25	1.82		
2200	22×35	1.33	25×35	1.67	25×50	2.11	30×50	2.40
			30×30	1.68	30×35	2.05	35×40	2.39
			35×25	1.71	35×30	2.09		
2700	22×40	1.51	22×50	1.92	30×40	2.35	35×50	2.81
	25×30	1.47	25×40	1.90	35×35	2.37		
	30×25	1.50	30×35	1.93				
3300	25×35	1.70	25×50	2.20	30×50	2.75		
	30×30	1.70	35×30	2.18	35×40	2.73		
	35×25	1.74						
3900	22×50	1.91	30×40	2.41				
	25×40	1.89	35×35	2.43				
4700	30×35	2.11	30×50	2.80	35×50	3.46		
	35×30	2.16	35×40	2.78				
5600	25×50	2.38						
	30×40	2.39						
	35×35	2.41						
6800	30×50	2.79	35×50	3.55				
	35×40	2.78						
8200								
10000	35×50	3.57						

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

大电解

Large Can Type

尺寸 Dimensions

Voltage	160V		200V		250V		315V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
150							22×25	0.80
180							22×30	0.92
							25×25	0.94
220					22×25	1.01	22×35	1.04
							30×25	1.17
270			22×25	1.10	22×30	1.20	22×40	1.18
							25×30	1.19
330					25×25	1.32	22×45	1.33
							25×35	1.37
							30×30	1.40
							35×25	1.49
390	22×25	1.32	22×30	1.38	22×35	1.44	25×50	1.48
			25×25	1.9	25×30	1.43	25×40	1.52
					30×25	1.51		
470			22×35	1.55	22×40	1.62	25×45	1.70
							30×35	1.71
							35×30	1.82
560	22×30	1.66	22×40	1.73	22×45	1.80	25×50	1.88
	25×25	1.68	25×30	1.71	25×35	1.78	30×40	1.92
			30×25	1.78	30×30	1.83	35×35	2.00
					35×25	1.91		
680	25×35	1.87	22×45	1.81	25×40	2.00	30×50	2.21
	25×30	1.88	25×35	1.87	30×35	2.06	35×40	2.29
	30×25	1.96	30×30	1.98	35×30	2.15		
			35×25	2.10				
820	22×40	2.09	22×50	2.18	25×50	2.28	35×45	2.57
			25×40	2.09	30×40	2.33		
			30×35	2.22	35×35	2.38		
1000	22×45	2.36	25×45	2.35	30×50	2.68	35×50	2.89
	25×35	2.38	30×40	2.53	35×40	2.72		
	30×30	2.40	35×30	2.61				
	35×25	2.55						
1200	25×40	2.66	30×45	2.84	35×45	3.05		
	30×35	2.69	35×35	2.88				
	35×30	2.86						
1500	25×50	3.08	35×40	3.34	35×50	3.49		
	30×45	3.17						
	35×35	3.22						
1800	30×50	3.53	35×45	3.74				
	35×40	3.66						
2200	35×45	4.14						
2700	35×50	4.68						

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

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尺寸 Dimensions

Voltage	350V		400V		420V		450V	
Cap.(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Rillpe Current
82							22×25	0.59
100			22×25	0.66	22×25	0.66	22×30	0.69
							25×25	0.70
120	22×25	0.72	22×30	0.75	22×30	0.75	22×35	0.77
					25×25	0.77		
150	22×30	0.84	22×35	0.86	22×35	0.86	22×40	0.88
			22×25	0.86			22×30	0.88
							30×25	0.93
180	25×25	0.94	22×40	0.96	22×40	0.96	22×50	1.01
			25×30	0.97	25×30	0.97	25×40	1.03
			30×25	1.02	30×25	1.02	30×30	1.03
							35×25	1.10
220	22×35	1.04	22×45	1.09	22×50	1.11	25×45	1.16
	25×30	1.07	25×35	1.12	25×40	1.14	30×35	1.17
	30×25	1.13			30×30	1.14	35×30	1.24
					35×25	1.22		
270	22×45	1.20	22×50	1.23	25×45	1.29	25×50	1.31
	25×35	1.24	25×40	1.26	30×35	1.30	30×40	1.33
	30×30	1.27	30×30	1.27	35×30	1.38	35×35	1.39
	35×25	1.35						
330	22×50	1.36	25×50	1.44	25×50	1.44	30×45	1.51
	25×40	1.39	30×35	1.43	30×40	1.48		
	30×35	1.43	35×30	1.52	35×35	1.54		
390	25×45	1.55	30×40	1.60	30×45	1.64	30×50	1.67
	30×40	1.60	35×35	1.67	35×40	1.73	35×40	1.73
	35×30	1.66						
470	25×50	1.72	30×45	1.81	30×50	1.84	35×50	1.98
	30×45	1.81	35×40	1.90	35×45	1.94		
	35×35	1.83						
560	30×50	2.00	35×45	2.12	35×50	2.17		
	35×40	2.07						
680	35×45	2.34	35×50	2.39				
820	35×50	2.62						

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