大电解

Large Can Type

CD299

高纹波、高稳定性
Highly ripple, high erliability.
低等效串联电阻
Low equivalent series resistance ESR.
加纹波电流5000小时寿命
Load life with ripple current: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	200~450V
标称电容量范围 Nominal capactiance range	100~33000μF	
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（tgδ） Dissipation factor (+20℃, 120Hz)		

Rated voltage(V)	10	16	25	35	50	63~100	200~400	450
tgδ	0.60	0.45	0.30	0.25	0.20	0.15	0.15	0.20

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

U_R(V)	10	16	25	35	50	63~100	200	250	400	450
Z−25℃/+20℃	6	6	6	6	4	3	8	8	8	8
Z−40℃/+20℃	15	15	15	10	8	6				

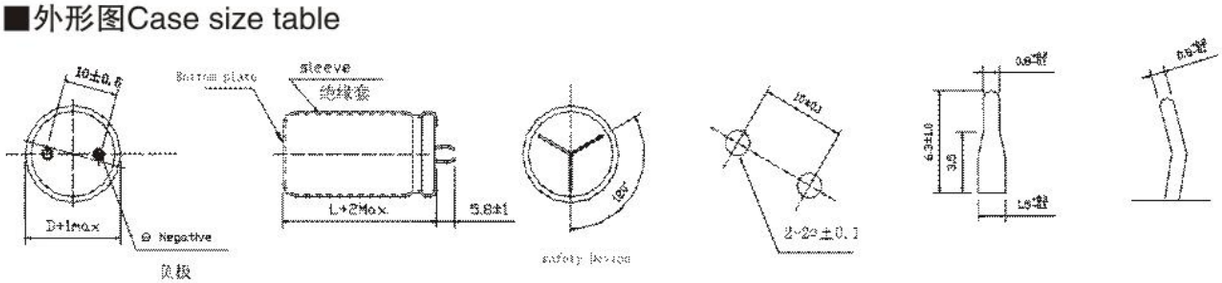
耐久性
Load life

+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 +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times Initial 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1.5 times Initial specified value

■外形图Case size table



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Voltage	10V			16V			25V		
Cap.(μF)	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
4700							22×30	57	1.6
							25×25	57	1.6
6800	22×25	78	1.4	22×30	49	1.8	25×30	43	1.9
10000	22×30	56	1.8	25×30	36	2.2	25×40	32	2.5
15000	22×40	39	2.3	25×40	26	2.8	30×40	23	3.2
22000	30×35	28	3.0	30×40	18	3.5			
33000	30×45	20	3.9						

Voltage	35V			50V			63V		
Cap.(μF)	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
1000							22×25	159	1.0
1500							22×35	106	1.4
2200	22×25	90	1.1	22×35	90	1.4	25×35	72	1.7
							30×30	85	1.8
3300	22×30	60	1.5	25×35	60	1.8	30×40	56	2.3
	25×25	60	1.5						
4700	22×40	48	1.9	30×35	45	2.2	35×35	45	2.7
6800	25×40	37	2.3	30×50	35	2.9	35×50	31	3.6
10000	30×40	28	2.9	35×45	26	3.6			
15000	35×40	20	3.8						
18000	35×45	18	4.3						

Voltage	80V			100V			200V		
Cap.(μF)	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
220							22×30	700	0.96
330							22×40	470	1.3
470							25×40	330	1.7
							30×30	330	1.7
560				25×25	190	1.0			
680				22×35	156	1.2	30×40	230	2.2
1000	25×25	133	1.3	25×35	106	1.4	35×45	160	3.1
				30×30	106	1.5			
1200	30×25	110	1.5						
1500	25×35	89	1.8	30×40	70	1.9	35×50	110	3.9
2200	30×35	60	2.0	30×50	60	2.3			
3300	35×35	48	2.8	35×50	40	3.0			
4700	35×45	34	3.4						

Voltage	250V			400V			450V		
Cap.(μF)	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
100				25×30	1090	0.7	22×45	1600	0.75
							30×30	1600	0.76
150				25×40	730	0.95	25×45	1070	1.0
				30×30	730	0.94	30×35	1070	0.99
220	25×30	700	1.0	30×40	500	1.3	30×45	730	1.3
				35×30	500	1.3	35×35	730	1.3
330	25×40	470	1.4	30×50	330	1.7	35×50	490	1.8
	30×30	470	1.4	35×40	330	1.7			
390				35×45	280	1.9	35×50	410	2.0
470	30×35	330	1.8	35×50	240	2.2			
680	30×45	230	2.3						
1000	35×45	160	3.1						

Maximum Allowable Ripple Current(A rms)at 105℃ 120Hz.
Maximum Impedance (mΩ)at 20℃ 20KHz.