

ALUMINUM ELECTROLYTIC CAPACITORS

CD288G Series

+105°C, High Ripple Current (高纹波), Long Life Assurance (长寿命) Low Impedance (低阻抗品)

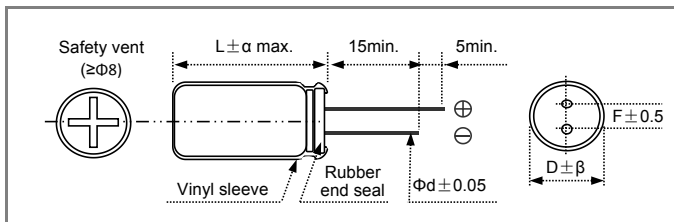
FEATURES 特点

- 1、专用于电动车控制器、LED驱动电源等。Dedicated to electric vehicle controller, LED driver power supply, etc。
- 2、Long Life time: 2000 hours at 105°C.

SPECIFICATIONS 规格表

Item 项目	Performance Characteristics 特性参数									
Operation Temperature Range 工作温度范围	-40 to +105°C									
Rated Working Voltage Range 额定电压范围	10 to 120V									
Nominal Capacitance Range 静电容量范围	0.47 to 10000µF									
Capacitance Tolerance 静电容量允许偏差	±20%(120Hz,+20°C)									
Leakage Current 漏电流	LC≤0.01CV or 3(µA) Whichever is greater measured after 2 minutes application of rated working voltage at +20 °C 施加额定工作电压充电2分钟后读数，二者取大值。 [C: 静电容量(uF), V: 额定电压(V)]									
Dissipation Factor (tan δ) 损失角正切值 (120Hz,+20°C)	Working Voltage(V)	10	16	25	35	50	63	80	100	120
	tan δ(max)	0.19	0.16	0.14	0.12	0.1	0.09	0.08	0.08	0.08
Low Temperature characteristics 温度特性(阻抗比)	For capacitance value >1000µF, add 0.02 per another 1000µF 标称容量值超过1000uF, 则每增加1000uF, 损失角正切值增加0.02									
	Impedance ratio max. at 120 Hz 阻抗比最大值									
	Working Voltage(V)	10	16	25	35	50	63	80	100	120
	Z(-25°C) / Z(+20°C)	3	2	2	2	2	2	2	2	2
High Temperature Loading (Endurance) 高温负荷寿命(耐久性)	Test conditions 试验条件					Post test requirements at +20°C 试验后特性应满足如下要求				
	Duration 持续时间	2000 hours				Leakage current 漏电流	≅ Initial specified value 初始规格值			
	Ambient temp. 环境温度	+105°C				Cap. Change 静电容量变化率	within ±25% of initial measured value 初始测试值的±25%内			
Shelf Life 高温储存寿命	Applied voltage 施加电压	DC voltage with maximum permissible ripple current specified at +105°C 施加直流电压与额定纹波电流(所加电压峰值[DC+AC]不超过额定工作电压)				D.F.(tan δ) 损失角正切值	≤200% of initial specified value 2倍初始规格值			
	Before test requirement: Resumed 16 hours at normal temperature 测试前将电容在常温中放置16小时									
	Duration 持续时间	1000 hours				Leakage current 漏电流	≅ Initial specified value 初始规格值			
Ambient temp. 环境温度	+105°C				Cap. Change 静电容量变化率	within ±25% of initial measured value 初始测试值的±25%内				
Applied voltage 施加电压	(None) 无				D.F.(tan δ) 损失角正切值	≤200% of initial specified value 2倍初始规格值				
◆(Before the measurements, the capacitor shall be pretreated by applying DC working voltage for 30min, after discharged and then stored under standard atmospheric conditions for 24-48 hours) 测试前应将电容在常温中施加工作电压30分钟, 放电后在标准气压下放置24-48小时										
Other 其他	JIS C-5101 (IEC 60384)									

CASE SIZE TABLE 尺寸图 (Unit: mm)



ΦD	5	6.3	8(L<20)			8(L≥20)	10	13
F	2.0	2.5	3.5				5.0	5.0
Φd	0.5		0.6					
α	(L<20) 1.5						(L≥20) 2.0	
β	(D<20) 0.5						(D≥20) 1.0	

Multiplier for Ripple Current vs. Frequency 纹波电流频率修正系数

Frequency Coefficient 频率系数

Cap(µF)	50 Hz	120 Hz	300 Hz	1k Hz	100k Hz
15~33	0.45	0.55	0.70	0.90	1.00
39~330	0.60	0.70	0.85	0.95	1.00
470~1000	0.65	0.75	0.90	0.98	1.00
1200~3900	0.75	0.80	0.95	1.00	1.00

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STANDARD RATINGS 标准品一览表

U _R (Surge Voltage)Code		10(13)1A			16(20)1C			25(32)1E		
Cap.(μF)	Code	Case Size	Impedance	Ripple	Case Size	Impedance	Ripple	Case Size	Impedance	Ripple
10					5X11	4.70	74	5X11	2.56	85
22					5X11	2.60	100	5X11	1.95	125
33					5X11	2.00	114	5X11	1.42	155
47					5X11	1.10	155	5X11	1.10	205
100	101	5x11	0.800	210	6.3×12	0.500	265	6.3×12	0.350	370
220	221	6.3×12	0.350	340	6.3×12	0.250	480	6.3×12	0.150	550
330	331	6.3×12	0.270	460	8×12	0.156	590	8×12	0.114	820
470	471	6.3×12	0.250	500	8×12	0.124	750	8×16	0.080	900
		8×12	0.140	640	8×14	1.100	760	10×15	0.076	1200
560	561	8×12	0.130	640	10×13	0.105	785	10×15	0.072	1250
680	681	8×16	0.087	840	8×16	0.095	1050	8×20	0.065	1320
		10×13	0.080	865	10×16	0.092	1100	10×16	0.065	1320
1000	102	8×20	0.069	1050	10×16	0.050	1200	10×16	0.050	1400
		10×16	0.060	1210	10×20	0.046	1400	10×20	0.045	1530
1200	122	10×20	0.046	1400	10×25	0.042	1650	10×25	0.041	1650
1500	152	10×25	0.042	1650	13×21	0.035	1900	13×21	0.038	1980
2200	222	10x20	0.040	1750	13x21	0.032	1950	13x21	0.037	2100
		13×21	0.035	1900	13×25	0.030	2124	13×25	0.036	2210
3300	332	13×25	0.030	2124	13×25	0.029	2250	16×25	0.026	2820
4700	472	16×25	0.030	2124	16×30	0.026	2880	16×30	0.024	3240
6800	682	16x30	0.026	2650	18x35	0.024	3200			
10000	103	18x35	0.024	2850	18x40	0.024	3550			

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size ΦD x L(mm)

Maximum Impedance (Ω) at 20°C 100kHz

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately

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STANDARD RATINGS 标准品一览表

U _R (Surge Voltage)Code		35(44)1V			50(63)1H			63(79)1J		
Cap.(μF)	Code	Case Size	Impedance	Ripple	Case Size	Impedance	Ripple	Case Size	Impedance	Ripple
0.47	P47				5×11	5.400	15	5×11	5.400	25
1	001				5×11	4.000	18	5×11	4.000	33
2.2	2P2				5×11	2.800	22	5×11	2.800	45
3.3	3P3				5×11	2.200	32	5×11	2.200	58
4.7	4P7				5×11	2.000	43	5×11	2.000	65
10	010	5×11	2.370	105	5×11	1.820	68	5×11	1.750	110
22	022	5×11	1.500	150	5×11	1.350	130	6.3×12	0.800	240
33	033	6.3×12	1.200	180	6.3×12	0.800	250	8×12	0.610	270
47	047	6.3×12	0.800	280	6.3×12	0.650	290	8×12	0.560	300
56	056	6.3×12	0.640	310	6.3×12	0.490	295	8×12	0.380	330
68	068	6.3×12	0.520	350	8×12	0.330	375	10×13	0.210	480
100	101	6.3×12	0.350	400	8×12	0.170	530	8×14	0.160	500
		8×12	0.250	450				10×16	0.140	610
150	151	8×12	1.910	540	10×13	0.132	590	10×16	0.111	700
220	221	8×12	1.720	650	10×16	0.096	850	10×17	0.075	900
		8×16	0.114	750	10×20	0.090	930	10×20	0.08	1100
330	331	8×16	0.082	950	10×20	0.078	960	10×25	0.065	1150
		10×16	0.079	1050	10×25	0.065	1150	13×21	0.055	1250
470	471	10×16	0.075	1100	13×21	0.055	1590	13×21	0.055	1500
		10×20	0.065	1200	13×25	0.052	1620	13×25	0.053	1620
560	561	10×25	0.061	1500	13×25	0.050	1660	13×25	0.049	1680
680	681	13×21	0.056	1570	13×21	0.044	1900	16×25	0.043	1950
820	821	13×21	0.048	1700	13×30	0.039	2100	16×25	0.038	2150
1000	102	13×21	0.046	1800	16×21	0.038	2200	16×25	0.036	2200
		13×25	0.042	1900	16×25	0.036	2300	16×27	0.034	2350
1200	122	13×30	0.038	2130	16×31	0.036	2650	16×35	0.032	2550
1500	152	16×25	0.036	2270	16×35	0.034	2750	18×35	0.031	2710
2200	222	16×25	0.034	2850	18×35	0.032	3040	18×41	0.027	3000
3300	332	18×35	0.026	3100						

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size ΦD x L(mm)

Maximum Impedance (Ω) at 20°C 100kHz

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U _R (Surge Voltage)Code		80(100)1K			100(125)2A			120(140)2R		
Cap.(μF)	Code	Case Size	Impedance	Ripple	Case Size	Impedance	Ripple	Case Size	Impedance	Ripple
0.47	P47				5x11	5.40	25	5x11	5.40	25
1	001				5x11	4.00	33	5x11	4.00	33
2.2	2P2	5x11	3.30	42	5x11	3.30	42	5x11	3.30	42
3.3	3P3	5x11	2.40	56	5x11	2.80	55	5x11	2.80	55
4.7	4P7	5x11	2.20	68	5x11	2.60	72	5x11	2.60	72
10	010	6.3x12	1.76	120	6.3x12	1.77	130	6.3x12	1.780	140
15	015	6.3x12	1.65	150	6.3x12	0.960	140	6.3x12	1.000	150
22	022	8x12	0.850	230	8x12	0.85	220	8x14	0.950	230
33	033	8x12	0.690	290	8x12	0.690	320	8x16	0.700	340
47	047	8x12	0.690	300	8x16	0.690	320	10x15	0.700	330
		8x16	0.580	320	10x15	0.580	340	10x17	0.600	360
56	056	8x14	0.540	350	10x16	0.500	362	10x17	0.520	380
68	068	10x13	0.350	475	10x16	0.350	470	10x17	0.400	490
100	101	8x16	0.350	510	10x17	0.330	510	10x20	0.350	580
		10x17	0.340	580	10x20	0.300	560			
120	121	10x17	0.220	640	10x25	0.280	580	10x25	0.300	600
150	121	10x17	0.174	740	13x21	0.210	680	13x21	0.230	720
180	181	10x20	0.168	800	13x25	0.180	700	13x25	0.190	750
220	221	10x20	0.163	920	13x21	0.160	700	13x25	0.170	810
		13x21	0.130	1050	13x25	0.130	800			
330	331	13x21	0.120	1100	16x22	0.130	900	16x25	0.140	1500
		13x25	0.100	1200	16x25	0.100	1440			
470	471	16x22	0.100	1310	16x25	0.130	920	16x30	0.140	1500
		16x25	0.090	1430	16x27	0.090	1650	18x25	0.095	1700
560	561	16x30	0.088	1650	16x30	0.088	1700			
680	681	18x25	0.082	1860	18x30	0.085	1790			
1000	102	18x25	0.088	1550	18x41	0.065	1800			
		18x30	0.080	1620						

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size ΦD x L(mm)

Maximum Impedance (Ω) at 20°C 100kHz

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