

■ Features

- Used in DC-Link circuits, can replace electrolytic capacitor
- PP film design, good temperature characteristics
- Stable capacity
- Low ESR, high ripple current handing capabilities
- Low Ls
- Self-healing property
- Aluminum case , filled with fire-retardant resin

■ Applications

- Wind energy , Solar
- Transportation: HEV or EV
- Welders, Elevators, Motor Driver systems

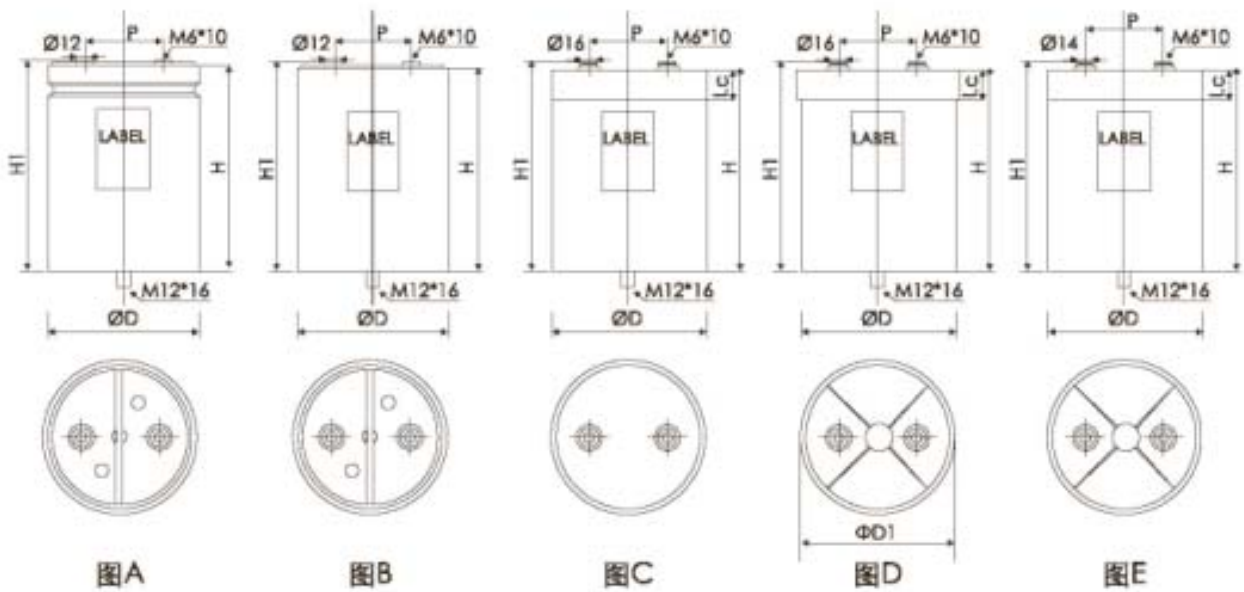
■ 特点

- 直流滤波用，可替代电解电容器
- 采用聚丙烯薄膜，温度特性好
- 容值稳定，变化率小
- 等效串联电阻小，能承受较大的纹波电流
- 自感小
- 有自愈性
- 铝壳，阻燃树脂灌封

■ 应用场合

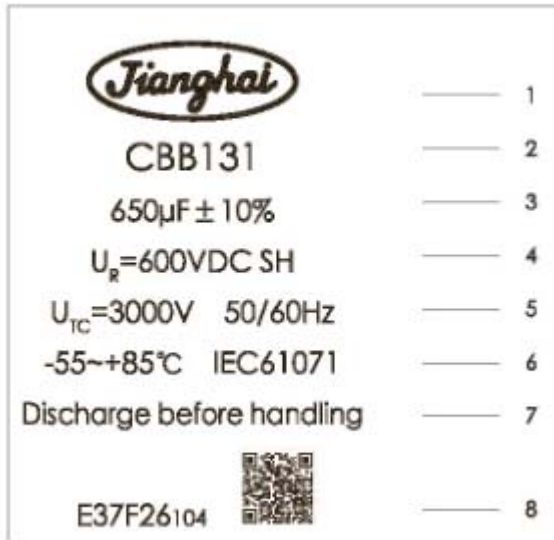
- 风能，太阳能
- 交通工具，如：电动车和混合动力车
- 焊接设备，电梯，电机驱动

外型图



类型 Style	D ±1.0mm	D1 ±1.0mm	P ±0.5mm	H ±1.0mm	H1 ±1.0mm H1=H+5	Lc ±1.0mm
C	76	-	32	95~230	100~235	20
A、B	85	-	32	95~230	100~235	-
C	86	-	32	95~230	100~235	20
D	86	89	32	95~230	100~235	35
E	86	-	32	95~230	100~235	25
D	89	92	45	95~230	100~235	35
A、B	116	-	50	95~230	100~235	-
C	116	-	50	95~230	100~235	40
E	136	-	50	95~252	100~257	35

标识 Marking



NO	项 目 Item
1	商 标 Brand
2	产品系列 Products series
3	容量和偏差 Capacitance and Tolerance
4	额定电压和自愈性 Rated voltage and Self-healing property
5	端子与铝壳电压 UTC Voltage Between Terminals and Case
6	温度范围 Temperature Range 引用标准 Reference Standard
7	安全警示 Safety warning
8	年度标记 Year code 二维码 QR Code

■ 性能特性 Specifications

项目 Item	特性 Characteristics		
引用标准 Reference Standard	GB/T 17702 (IEC 61071)		
气候类别 Climatic Category	55/85/56		
工作温度范围 Operating Temperature Range	-55~+85 °C ($\Theta_{\max(\text{hotspot})} \leq 85$ °C)		
存储温度范围 Storage Temperature Range	-55~+85 °C		
额定电压 UR Rated Voltage	600~2000 V _{DC}		
电容量范围 Capacitance Range	100 ~ 3500µF		
电容量偏差 Capacitance Tolerance	±5% (J), ±10% (K)		
端子与端子电压 U _{TT} Voltage Between Terminals	1.5 × U _R V _{DC} , 10s (20°C, 50 Hz)		
端子与铝壳电压 U _{IC} Voltage Between Terminals and Case	2 × U _i + 1000 or 3000 V _{AC} 取大者, 10 s (20 °C, 50 Hz)		
介质损耗角正切 Dielectric Dissipation Factor	≤ 2 × 10 ⁻⁴		
绝缘电阻 Insulation Resistance	≥ 5000 MΩ · µF (20°C, 100V _{DC} , 1min)		
过电压 Over Voltage	1.1 UR (30 % of on-load-duration)		
	1.15 UR (30 min/day)		
	1.2 UR (5 min/day)		
	1.3 UR (1 min/day)		
	1.5 UR (30 ms every time, 100 ms/day)		
最大电极扭矩 Max Torque of terminals	M6: 5 Nm	M8: 6 Nm	M10: 8 Nm
最大安装扭矩 Max Torque of installation	M12: 12 Nm		M16: 15Nm
预期寿命 Life Expectancy	100000 hours (U _R , $\Theta_{\text{hotspot}} = 70$ °C)		
失效率 Failure Rate	50 Fit		

■ 规格标准 Standard Ratings

U _R	C _R	P/N	I _{max} (A)			R _{th}	Ī	R _S	L _S	D	H	
			40°C	50°C	60°C							(K.W)
600	(V)	(μF)	-	40°C	50°C	60°C	(K.W)	(A)	(mΩ)	(nH)	(mm)	(mm)
	480	FCC2SDL487*H09503*	67	58	47	5.6	5000	1.6	≤60	76	95	
	650	FCC2SDL657*K09503*	84	73	60	5.1	5360	1.1	≤60	85/86	95	
	650	FCC2SDL657*H12003*	67	58	47	4.7	5440	1.9	≤60	76	120	
	770	FCC2SDL777*H13603*	88	76	62	4.3	6160	1.2	≤60	76	136	
	880	FCC2SDL887*K12003*	81	70	57	4.7	7360	1.3	≤60	85/86	120	
	950	FCC2SDL957*H17503*	82	71	58	4.2	8000	1.4	≤60	76	175	
	1000	FCC2SDL108*K13603*	79	68	56	4.6	6000	1.4	≤60	85/86	136	
	1200	FCC2SDL128*P09505*	96	83	68	5.4	7200	0.8	≤60	116	95	
	1300	FCC2SDL138*K17503*	96	84	68	4.3	7800	1.0	≤80	85/86	175	
	1600	FCC2SDL168*P12005*	94	82	67	5.0	10200	0.9	≤60	116	120	
	1800	FCC2SDL188*K22503*	95	83	67	4.0	10800	1.1	≤80	85/86	225	
	1900	FCC2SDL198*P13605*	86	75	61	4.9	11400	1.1	≤60	116	136	
	2100	FCC2SDL218*P15505*	100	100	96	3.6	11550	0.6	≤80	116	155	
	2400	FCC2SDL248*P17505*	100	100	99	3.4	12000	0.6	≤80	116	175	
3000	FCC2SDL308*P23005*	100	100	96	2.7	15000	0.8	≤80	116	230		
800	280	FCC2KDL287*H09503*	57	49	40	5.6	2800	2.2	≤60	76	95	
	370	FCC2KDL377*K09503*	72	63	51	5.1	3700	1.5	≤60	85/86	95	
	380	FCC2KDL387*H12003*	58	51	41	4.7	3800	2.5	≤60	76	120	
	430	FCC2KDL437*H13603*	57	49	40	4.6	4300	2.7	≤60	76	136	
	470	FCC2KDL477*H15503*	76	66	54	4.3	4700	1.6	≤60	76	155	
	510	FCC2KDL517*K12003*	71	61	50	4.7	5100	1.7	≤80	85/86	120	
	560	FCC2KDL567*H17503*	73	63	51	4.2	5600	1.8	≤60	76	175	
	580	FCC2KDL587*K13603*	68	59	48	4.6	5800	1.9	≤60	85/86	136	
	640	FCC2KDL647*K15503*	91	79	64	4.4	6400	1.1	≤60	85/86	155	
	710	FCC2KDL717*P09505*	82	71	58	5.4	7100	1.1	≤60	116	95	
	750	FCC2KDL757*K17503*	85	73	60	4.3	7500	1.3	≤80	85/86	175	
	970	FCC2KDL977*P12005*	82	71	58	5.0	9700	1.2	≤60	116	120	
	1000	FCC2KDL108*K22505*	85	73	60	4.0	8000	1.4	≤80	85/86	225	
	1000	FCC2KDL108*P13605*	76	66	54	4.9	8000	1.4	≤60	116	136	
	1200	FCC2KDL128*P15505*	100	100	83	3.6	9600	0.8	≤80	116	155	
	1400	FCC2KDL148*P17505*	100	100	86	3.4	11200	0.8	≤80	116	175	
	1800	FCC2KDL188*P23005*	100	100	86	2.7	15200	1.0	≤80	116	230	
	2000	FCC2KDL208*T17505*	100	100	90	3.5	16000	0.7	≤100	136	175	
2700	FCC2KDL278*T23005*	100	100	93	2.9	16200	0.8	≤100	136	230		
3100	FCC2KD318*T25205*	100	100	100	2.0	18600	1.0	≤100	136	252		
900	280	FCCR2DL287*H09503*	55	47	39	5.6	2800	2.4	≤60	76	95	
	370	FCCR2DL377*K09503*	70	61	50	5.1	3700	1.6	≤60	85/86	95	
	380	FCCR2DL387*H12003*	56	49	40	4.7	3800	2.7	≤60	76	120	
	430	FCCR2DL437*H13603*	55	47	39	4.6	4300	2.9	≤60	76	136	
	470	FCCR2DL477*H15503*	74	64	52	4.3	4700	1.7	≤60	76	155	
	510	FCCR2DL517*K12003*	69	60	49	4.7	5100	1.8	≤60	85/86	120	
	560	FCCR2DL567*K17503*	69	60	49	4.2	5600	2.0	≤60	76	175	
	580	FCCR2DL587*K13603*	64	56	46	4.6	5800	2.1	≤60	85/86	136	
	640	FCCR2DL647*K15503*	87	75	62	4.4	6400	1.2	≤60	85/86	155	
	710	FCCR2DL717*P09505*	79	68	56	5.4	7100	1.2	≤60	116	95	
	750	FCCR2DL757*K17503*	82	71	58	4.3	7500	1.4	≤60	85/86	175	
	970	FCCR2DL977*P12005*	79	68	55	5.0	7600	1.3	≤60	116	120	



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	1000	FCCR2DL108*K22050*	82	71	58	4.0	8000	1.5	≤80	85/86	225
	1000	FCCR2DL108*P13605*	74	64	52	4.9	8000	1.5	≤60	116	136
	1200	FCCR2DL128*P15505*	100	92	75	3.6	9600	1.0	≤80	116	155
	1400	FCCR2DL148*P17505*	100	99	81	3.4	11200	0.9	≤80	116	175
	1800	FCCR2DL188*P23005*	100	100	82	2.7	11700	1.1	≤80	116	230
	2000	FCCR2DL208*T17505*	100	100	100	2.5	12000	0.8	≤100	136	175
	2700	FCCR2DL278*T23005*	100	100	88	2.9	16200	0.9	≤100	136	230
	3100	FCCR2DL318*T25205*	100	100	95	2.0	18600	1.1	≤100	136	252
1000	220	FCC3ADL227*H09503*	55	47	39	5.6	2420	2.4	≤60	76	95
	290	FCC3ADL297*K09503*	68	59	48	5.1	3190	1.7	≤60	85/86	95
	300	FCC3ADL307*H12003*	55	48	39	4.7	3300	2.8	≤60	76	120
	330	FCC3ADL337*H13603*	54	47	38	4.6	3630	3.0	≤60	76	136
	360	FCC3ADL367*H15503*	72	62	51	4.3	4070	1.8	≤60	76	155
	400	FCC3ADL407*K12003*	67	58	47	4.7	4400	1.9	≤60	85/86	120
	420	FCC3ADL447*H17503*	69	60	49	4.2	4840	2.0	≤60	76	175
	450	FCC3ADL457*H13603*	64	56	46	4.6	4950	2.1	≤60	85/86	136
	500	FCC3ADL507*K15503*	87	75	62	4.4	5000	1.2	≤60	85/86	155
	540	FCC3ADL547*K09505*	79	68	56	5.4	5600	1.2	≤60	116	95
	560	FCC3ADL567*P17503*	82	71	58	4.3	5900	1.4	≤80	85/86	175
	740	FCC3ADL747*K12005*	79	68	55	5.0	7600	1.3	≤60	116	120
	810	FCC3ADL817*P22503*	81	79	65	3.0	8100	1.6	≤80	85/86	225
	860	FCC3ADL867*K13605*	71	62	51	4.9	8600	1.6	≤60	116	136
	900	FCC3ADL907*P15505*	100	96	79	3.6	9600	0.9	≤80	116	155
	1100	FCC3ADL118*P17505*	100	99	81	3.4	9900	0.9	≤80	116	175
	1400	FCC3ADL148*P23005*	100	100	82	2.7	12000	1.1	≤80	116	230
	1500	FCC3ADL158*T17505*	100	100	100	2.5	12000	0.8	≤100	136	175
2100	FCC3ADL218*T23005*	100	100	88	2.9	12600	0.9	≤100	136	230	
2400	FCC3ADL248*T25205*	100	100	95	2.0	14400	1.1	≤100	136	252	
1100	170	FCC3ADL177*H09503*	51	45	36	5.6	2040	2.7	≤60	76	95
	240	FCC3ADL247*H12003*	64	56	45	4.7	2880	1.9	≤60	76	120
	240	FCC3ADL247*K09503*	52	45	37	5.1	2880	3.1	≤60	85/86	95
	270	FCC3ADL277*H13603*	51	44	36	4.6	3240	3.4	≤60	76	136
	300	FCC3ADL307*H15503*	68	59	48	4.3	3600	2.0	≤60	76	155
	320	FCC3ADL327*K12003*	62	54	44	4.7	3840	2.2	≤60	85/86	120
	350	FCC3ADL357*H17503*	64	56	46	4.2	4200	2.3	≤60	76	175
	420	FCC3ADL427*K13603*	60	52	43	4.6	5040	2.4	≤60	85/86	136
	420	FCC3ADL427*K15503*	81	70	57	4.4	5040	1.4	≤60	85/86	155
	450	FCC3ADL457*P09505*	75	65	53	5.4	5400	1.3	≤60	116	95
	480	FCC3ADL487*K17503*	76	66	54	4.3	5760	1.6	≤80	85/86	175
	620	FCC3ADL627*P12005*	73	63	52	5.0	6200	1.5	≤60	116	120
	650	FCC3ADL657*K22503*	75	65	53	4.0	6500	1.8	≤80	85/86	225
	690	FCC3ADL697*P13605*	69	60	49	4.9	6900	1.7	≤60	116	136
	770	FCC3ADL777*P15505*	100	91	75	3.6	7700	1.0	≤80	116	155
	910	FCC3ADL917*P17505*	100	94	77	3.4	9100	1.0	≤80	116	175
	1200	FCC3ADL128*P23005*	100	96	79	2.7	9600	1.2	≤80	116	230
	1200	FCC3ADL128*T17505*	100	100	94	2.5	9600	0.9	≤100	136	175
	1700	FCC3ADL178*T23005*	100	100	83	2.9	13600	1.0	≤100	136	230
	1900	FCC3ADL198*T23005*	100	100	95	2.0	15200	1.1	≤100	136	252
1200	140	FCC3BDL147*H09503*	49	42	35	5.6	1680	3.0	≤60	76	95
	190	FCC3BDL197*K09503*	61	53	43	5.1	2280	2.1	≤60	85/86	95
	200	FCC3BDL207*H12003*	50	43	35	4.7	2400	3.4	≤60	76	120

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	220	FCC3BDL227*H13603*	48	42	34	4.6	2640	3.7	≤80	76	136
	240	FCC3BDL247*H15503*	65	56	46	4.3	2880	2.2	≤60	76	155
	260	FCC3BDL267*K12003*	60	52	42	4.7	3120	2.4	≤60	85/86	120
	280	FCC3BDL287*H17503*	62	53	44	4.2	3360	2.5	≤60	76	175
	300	FCC3BDL307*K13603*	58	50	41	4.6	3600	2.6	≤60	85/86	136
	330	FCC3BDL337*K15503*	78	67	55	4.4	3960	1.5	≤60	85/86	155
	360	FCC3BDL367*P09505*	73	63	51	5.4	4440	1.4	≤60	116	95
	380	FCC3BDL387*K17503*	72	62	51	4.3	4680	1.8	≤80	85/86	175
	500	FCC3BDL507*P12005*	69	59	49	5.0	5610	1.7	≤60	116	120
	540	FCC3BDL547*K22503*	71	61	50	4.0	5940	2.0	≤80	85/86	225
	570	FCC3BDL577*P13605*	66	57	46	4.9	6270	1.9	≤60	116	136
	620	FCC3BDL627*P15505*	100	87	71	3.6	6820	1.1	≤80	116	155
	720	FCC3BDL727*P17505*	100	90	73	3.4	7920	1.1	≤80	116	175
	950	FCC3BDL957*P23005*	100	92	75	2.7	9500	1.3	≤80	116	230
	1000	FCC3BDL108*T17505*	100	100	89	2.5	10000	1.0	≤100	136	175
	1400	FCC3BDL148*T23005*	100	97	79	2.9	14000	1.1	≤100	136	230
	1600	FCC3BDL168*T25205*	100	100	91	2.0	16000	1.2	≤100	136	252
1300	120	FCCO3DL127*H09503*	47	40	33	5.6	1440	3.3	≤60	76	95
	160	FCCO3DL167*H12003*	57	51	41	4.7	1920	2.3	≤60	76	120
	160	FCCO3DL167*K09503*	48	42	34	5.1	1920	3.7	≤60	85/86	95
	180	FCCO3DL187*H13603*	46	40	33	4.6	2160	4.1	≤60	76	136
	210	FCCO3DL217*H15503*	62	54	44	4.3	2520	2.4	≤60	76	155
	220	FCCO3DL227*K12203*	57	50	40	4.7	2640	2.6	≤60	85/86	120
	240	FCCO3DL247*H17503*	58	51	41	4.2	2880	2.8	≤60	76	175
	250	FCCO3DL257*K13603*	55	47	39	4.6	3000	2.9	≤60	85/86	136
	280	FCCO3DL287*K15503*	73	63	52	4.4	3360	1.7	≤60	85/86	155
	310	FCCO3DL317*P09505*	68	59	48	5.4	3720	1.6	≤60	116	95
	320	FCCO3DL327*K17503*	70	61	49	4.3	3840	1.9	≤80	85/86	175
	420	FCCO3DL427*P12005*	67	58	47	5.0	5040	1.8	≤60	116	120
	450	FCCO3DL457*K22503*	67	58	48	4.0	5400	2.2	≤80	85/86	225
	480	FCCO3DL487*P13605*	62	54	44	4.9	5760	2.1	≤60	116	136
	530	FCCO3DL537*P15505*	100	87	71	3.6	6360	1.1	≤80	116	155
	630	FCCO3DL637*P17505*	100	90	73	3.4	7560	1.1	≤80	116	175
	820	FCCO3DL827*P23005*	99	86	70	2.7	10200	1.5	≤80	116	230
880	FCCO3DL887*T17505*	100	100	85	2.5	10560	1.1	≤100	136	175	
1200	FCCO3DL128*T23005*	100	93	76	2.9	13200	1.2	≤100	136	230	
1300	FCCO3DL138*P25205*	100	100	88	2.0	14300	1.3	≤100	136	252	
1500	170	FCCC3DL177*K12003*	52	45	37	4.7	2040	3.1	≤60	85/86	120
	210	FCCC3DL217*K15503*	67	58	48	4.4	2520	2.0	≤60	85/86	155
	310	FCCC3DL317*P12005*	62	53	44	5.0	3720	2.1	≤60	116	120
	330	FCCC3DL337*K22503*	63	55	45	4.0	3960	2.4	≤80	85/86	225
	400	FCCC3DL407*P15505*	89	77	63	3.6	4800	1.4	≤80	116	155
	600	FCCC3DL607*P23005*	93	81	66	2.7	7200	1.7	≤80	116	230

■ 规格标准 Standard Ratings

UR (V)	CR	P/N	I _{max} (A)			R _{th} (K . W)	Ī (A)	R _s (mΩ)	L _s (nH)	D (mm)	H (mm)
			40°C	50°C	60°C						
1700	130	FCCF3DL137*K12003*	49	43	35	4.7	1560	3.5	≤60	85/86	120
	160	FCCF3DL167*K15503*	63	54	44	4.4	1920	2.3	≤60	85/86	155
	240	FCCF3DL247*P12005*	58	50	41	5.0	2880	2.4	≤60	116	120
	250	FCCF3DL257*K22503*	59	51	42	4.0	3000	2.9	≤80	85/86	225
	300	FCCF3DL307*P15505*	83	72	59	3.6	3600	1.6	≤80	116	155
	460	FCCF3DL467*P23005*	88	76	62	2.7	5520	1.9	≤80	116	230
2000	100	FCC3DDL107*K12203*	46	40	33	4.7	1200	4.0	≤60	85/86	120
	120	FCC3DDL127*K15503*	60	52	43	4.4	1440	2.5	≤60	85/86	155
	190	FCC3DDL197*P12005*	54	47	38	5.0	2280	2.7	≤60	116	120
	190	FCC3DDL197*K22503*	55	48	39	4.0	2280	3.3	≤80	85/86	225
	240	FCC3DDL247*P15005*	79	68	56	3.6	2880	1.8	≤80	116	155
	370	FCC3DDL377*P23005*	82	71	58	2.7	4440	2.2	≤80	116	230

Customer products are available on request.

可根据客户要求定制。

* R_{th} 为产品热点到环境的热阻（自然冷却）

* The thermal Resistance from hotspot to ambient environment.(Natural cooling)

■ 预期寿命曲线 Expected lifetime curve

