

代码编制规则 Part Number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
F	C	C	2	S	D	Y	7	0	7	K	L	0	9	5	0	3	1	J	1
电容器类型 Capacitor Type	产品外形 Product Shape	额定电压代码 Rated Voltage Code (DC)	系列代码 Series Code			容量代码 Capacitance Code	容量偏差 Capacitance Tolerance	直径 Diameter	高度 Height	引出端子 terminals type	引出端子间距 Terminals Pitch	底部螺栓 Bottom Bolt	图号 Style	内部特征码 Internal use					
Film Capacitor =FC	Column=C	600=2S	CBB131S=DY			110=117	±5%=J	76=H	95=095	Female M6*10=0	32=3	Without=0	Style J=J						
		750=2G				180=187	±10%=K	86=L	120=120	Female M8*10=2		M12*16=1	Style K=K						
		800=2K				220=227	-15~0%=P		136=136	Female M10*10=4		M16*25=2							
		900=R2				300=357	Special=S		155=155	Female M8*12=6		M12*12=3							
		1000=3A				350=357			175=175	Female M5*7=8									
		1100=A3				500=507				Female M10*12=B									
		1200=3B				700=707				Male M6*20=1									
		1500=C3				1100=108						Male M8*20=3							
						1300=138						Male M10*20=5							

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

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

Applications

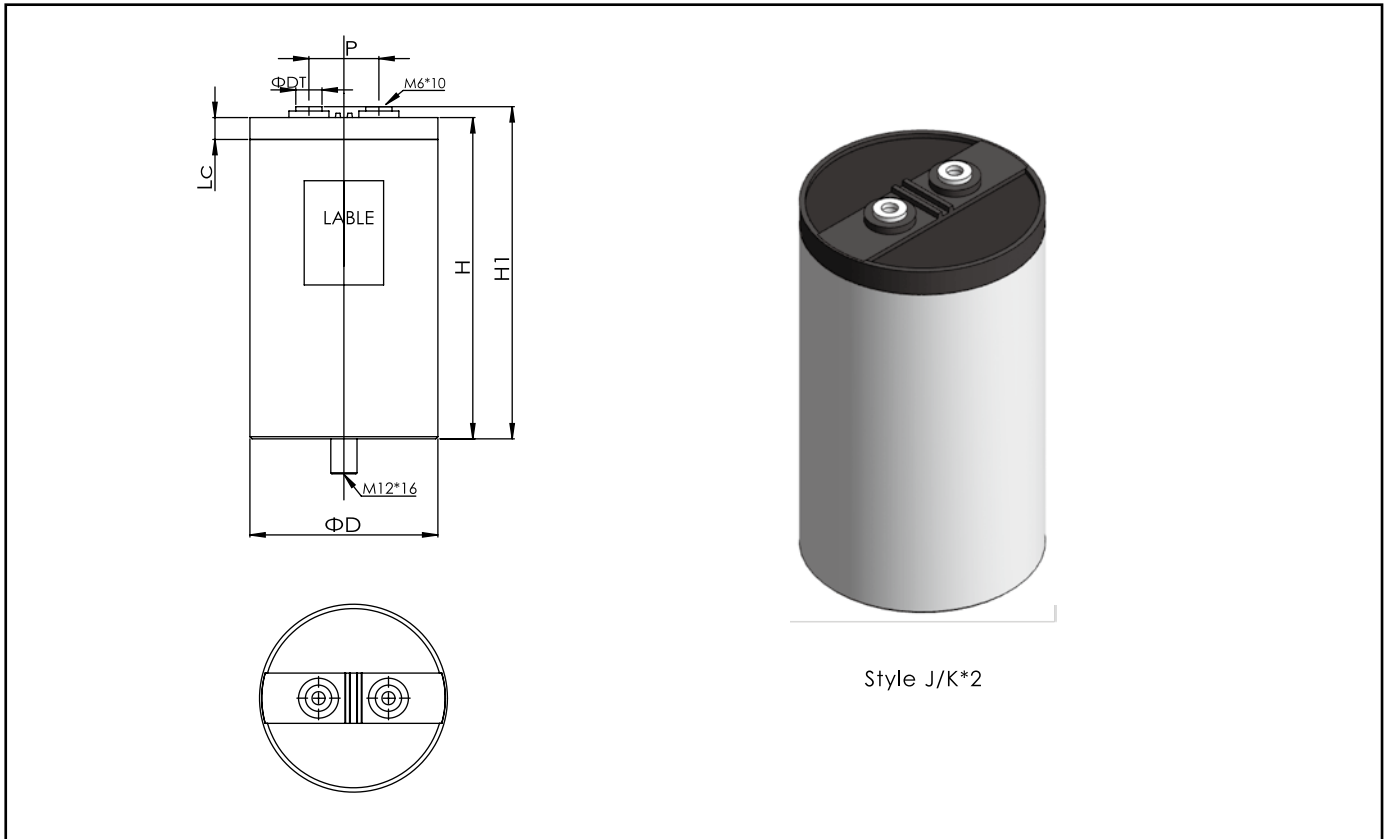
- Wind energy, Solar
- Transportation: HEV or EV
- Welders, Elevators, Motor Driver systems

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

外形图 Dimensions

Unit: mm



类型 Style	D ±1.0mm	D1 ±1.0mm	P ±0.5mm	H ±1.0mm	H1 ±1.0mm H1=H+5	Lc ±1.0mm
J	76		32	95~230	100~235	10
J/K	86		32	95~230	100~235	10/32

注: (*1) 图J: L_c=10mm D_t=12mm; 图K: L_c=32mm D_t=12mm

标识 Marking

	——	1
FCC2SDY707KL095031J	——	2
CBB131S	——	3
700 μ F \pm 10%	——	4
$U_R=600$ VDC SH	——	5
$U_{TC}=3000$ V 50/60Hz	——	6
-55~+85 $^{\circ}$ C IEC61071	——	7
Discharge before handling	——	8
J37F26 ₁₀₄	——	9

NO.	项目 Item
1	商标 Brand
2	产品代码 Products code
3	产品系列 Products series
4	容量和偏差 Capacitance and Tolerance
5	额定电压和自愈性 Rated voltage and Self-healing property
6	端子与铝壳电压 U_{TC} Voltage Between Terminals and Case
7	温度范围 Temperature Range 引用标准 Reference Standard
8	安全警示 Safety Warning
9	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	40/85/56			
工作温度范围 Operating Temperature Range	-40~+85 $^{\circ}$ C ($\theta_{hotspot} \leq 85^{\circ}$ C)			
存储温度范围 Storage Temperature Range	-40~+85 $^{\circ}$ C			
额定电压 U_R Rated Voltage	600~1500V _{DC}			
电容量范围 Capacitance Range	100~950 μ F			
电容量偏差 Capacitance Tolerance	$\pm 5\%$ (J), $\pm 10\%$ (K)			
端子与端子间耐压 U_{TT} Voltage Between Terminals	$1.5 \times U_R V_{DC}$, 10s (20 $^{\circ}$ C)			
端子与铝壳间耐压 U_{TC} Voltage Between Terminals and Case	$> 3000 V_{AC}$, 10s (20 $^{\circ}$ C, 50 Hz)			
介质损耗角正切 Dielectric Dissipation Factor	$\leq 2 \times 10^{-4}$			
绝缘电阻 Insulation Resistance	$IR \cdot C \geq 10000s$ (20 $^{\circ}$ C, 100V _{DC} , 1min)			
过电压 Over Voltage	1.1 U_R (30% of on-load-duration)			
	1.15 U_R (30 min/day)			
	1.2 U_R (5 min/day)			
	1.3 U_R (1 min/day)			
	1.5 U_R (30 ms every time, 100ms/day)			
最大电极扭矩 Max.Torque of terminals	M5:3 Nm	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 ($U_R, \theta_{hotspot}=70^{\circ}$ C)			
失效率 Failure Rate	50 FIT			

规格标准 Standard Ratings

U _r (V)	C _r (μF)	P/N	I _{max} (A)			R _{th} (K/W)	Ī (A)	R _s (mΩ)	L _s (nH)	D (mm)	H (mm)
			40℃	50℃	60℃						
600	570	FCC2SDY577*H09503*2	72	63	51	5.1	1600	1.5	≤50	76	95
	700	FCC2SDY707*L09503*2	71	62	51	5.6	2100	1.4	≤50	86	95
	800	FCC2SDY807*H12003*2	69	60	49	4.7	1650	1.8	≤60	76	120
	950	FCC2SDY957*H15503*2	67	58	47	4.3	1670	2.1	≤60	76	155
	1000	FCC2SDY108*H15503*2	70	70	65	4.3	3200	1.1	≤60	76	155
	1100	FCC2SDY118*L12003*2	75	65	53	4.8	2300	1.5	≤60	86	120
	1200	FCC2SDY128*H17503*2	70	70	66	4.2	2150	1.1	≤60	76	175
	1200	FCC2SDY128*L13603*2	70	62	51	4.6	2150	1.7	≤60	86	136
	1300	FCC2SDY138*L15503*2	70	63	52	4.4	2230	1.7	≤60	86	155
	1400	FCC2SDY148*L15503*2	70	70	67	4.4	4550	1	≤60	86	155
	1600	FCC2SDY168*L17503*2	70	70	68	4.3	4500	1	≤60	86	175
	500	FCC2GDY507*H09503*2	70	61	50	5.1	1680	1.6	≤50	76	95
	660	FCC2GDY667*L09503*2	71	62	51	5.6	2200	1.4	≤50	86	95
	700	FCC2GDY707*H12003*2	65	56	46	4.7	1680	2	≤60	76	120
850	FCC2GDY857*H15503*2	64	55	45	4.3	1680	2.3	≤60	76	155	
900	FCC2GDY907*H15503*2	70	70	65	4.3	3350	1.1	≤60	76	155	
900	FCC2GDY907*L12003*2	70	61	50	4.8	3350	1.7	≤60	86	120	
1000	FCC2GDY108*H17503*2	70	70	63	4.2	3200	1.2	≤60	76	175	
1100	FCC2GDY118*L13603*2	70	60	49	4.6	2260	1.8	≤60	86	136	
1200	FCC2GDY128*L15503*1	70	62	50	4.4	2350	1.8	≤60	86	155	
1200	FCC2GDY128*L15503*2	70	70	67	4.4	2350	1	≤60	86	155	
1400	FCC2GDY148*L17503*2	70	70	68	4.3	4500	1	≤50	86	175	
350	FCC2KDY357*H09503*2	68	59	48	5.1	1550	1.7	≤50	76	95	
490	FCC2KDY497*L09503*2	69	60	49	5.6	2000	1.5	≤50	86	95	
500	FCC2KDY507*H12003*2	64	55	45	4.7	1600	2.1	≤60	76	120	
600	FCC2KDY607*H15503*1	62	54	44	4.3	1590	2.4	≤60	76	155	
650	FCC2KDY657*H15503*2	70	70	65	4.3	3200	1.1	≤60	76	155	
650	FCC2KDY657*L12003*2	68	59	48	4.8	3200	1.8	≤60	86	120	
730	FCC2KDY737*H17503*2	70	70	63	4.2	3100	1.2	≤60	76	175	
770	FCC2KDY777*L13603*2	68	59	48	4.6	2100	1.9	≤60	86	136	
780	FCC2KDY787*L15503*2	67	58	48	4.4	2150	2	≤60	86	155	
850	FCC2KDY857*L15503*2	70	70	67	4.4	4100	1	≤60	86	155	
950	FCC2KDY957*L17503*2	70	70	65	4.3	4130	1.1	≤60	86	175	
350	FCCR2DY357*H09503*2	68	59	48	5.1	1500	1.7	≤50	76	95	
490	FCCR2DY497*L09503*2	69	60	49	5.6	2000	1.5	≤50	86	95	
500	FCCR2DY507*H12003*2	64	55	45	4.7	1600	2.1	≤60	76	120	
600	FCCR2DY607*H15503*2	62	54	44	4.3	1580	2.4	≤60	76	155	
650	FCCR2DY657*H15503*2	70	70	65	4.3	3100	1.1	≤60	76	155	
650	FCCR2DY657*L12003*2	68	59	48	4.8	3100	1.8	≤60	86	120	
730	FCCR2DY737*H17503*2	70	70	63	4.2	3200	1.2	≤60	76	175	
770	FCCR2DY777*L13603*2	68	59	48	4.6	2100	1.9	≤60	86	136	
780	FCCR2DY787*L15503*2	67	58	48	4.4	2150	2	≤60	86	155	
850	FCCR2DY857*L15503*2	70	70	67	4.4	4000	1	≤60	86	155	
950	FCCR2DY957*L17503*2	70	70	65	4.3	4150	1.1	≤60	86	175	
300	FCC3ADY307*H09503*2	64	56	45	5.1	1500	1.9	≤50	76	95	
400	FCC3ADY407*H12003*2	62	54	44	4.7	1580	2.2	≤60	76	120	
400	FCC3ADY407*L09503*2	67	58	47	5.6	1580	1.6	≤50	86	95	
490	FCC3ADY497*H15503*2	60	52	42	4.3	1600	2.6	≤60	76	155	
520	FCC3ADY527*H15503*2	70	70	62	4.3	1600	1.2	≤60	76	155	
540	FCC3ADY547*L12003*2	66	57	47	4.8	2000	1.9	≤60	86	120	
590	FCC3ADY597*H17503*2	70	70	61	4.2	3000	1.3	≤60	76	175	
600	FCC3ADY607*L13603*2	66	57	47	4.6	3120	2	≤60	86	136	
640	FCC3ADY647*L15503*2	66	57	47	4.4	3250	2.1	≤60	86	155	
680	FCC3ADY687*L15503*2	70	70	64	4.4	3280	1.1	≤60	86	155	
780	FCC3ADY787*L17503*2	70	70	65	4.3	4000	1.1	≤60	86	175	
220	FCCA3DY227*H09503*2	63	54	44	5.1	1550	2	≤50	76	95	
300	FCCA3DY307*H12003*2	58	51	41	4.7	1600	2.5	≤60	76	120	
300	FCCA3DY307*L09503*2	65	56	46	5.6	1600	1.7	≤50	86	95	
350	FCCA3DY357*H15503*2	56	48	39	4.3	1650	3	≤60	76	155	
400	FCCA3DY407*H15503*2	70	70	60	4.3	3100	1.3	≤60	76	155	
400	FCCA3DY407*L12003*2	63	55	45	4.8	3100	2.1	≤60	86	120	
430	FCCA3DY437*L13603*2	60	52	43	4.6	3250	2.4	≤60	86	136	
440	FCCA3DY447*H17503*2	70	70	58	4.2	3280	1.4	≤60	76	175	
500	FCCA3DY507*L15503*2	70	70	62	4.4	3940	1.2	≤60	86	155	
580	FCCA3DY587*L17503*2	70	70	62	4.3	3980	1.2	≤60	86	175	
180	FCC3BDY187*H09503*2	61	53	43	5.1	1520	2.1	≤60	76	95	
250	FCC3BDY257*H12003*2	55	48	39	4.7	1980	2.8	≤60	76	120	
250	FCC3BDY257*L09503*2	63	55	45	5.6	1980	1.8	≤50	86	95	
330	FCC3BDY337*H15503*2	70	70	59	4.3	2130	1.3	≤60	76	155	
370	FCC3BDY377*H17503*2	70	70	58	4.2	2590	1.4	≤60	76	175	
380	FCC3BDY387*L13603*2	59	51	42	4.6	2600	2.5	≤60	86	136	
400	FCC3BDY407*L15503*2	59	51	42	4.4	2800	2.6	≤60	86	155	
420	FCC3BDY427*L15503*2	70	70	62	4.4	3000	1.2	≤60	86	155	
480	FCC3BDY487*L17503*2	70	70	60	4.3	3190	1.3	≤60	86	175	
110	FCCC3DY117*H09503*2	55	48	39	5.1	1340	2.6	≤50	76	95	
140	FCCC3DY147*L09503*2	57	49	40	5.6	1360	2.2	≤50	86	95	
150	FCCC3DY157*H12003*2	51	44	36	4.7	1420	3.3	≤60	76	120	
160	FCCC3DY167*H15503*2	48	42	34	4.3	1450	4	≤60	76	155	
180	FCCC3DY187*H15503*2	70	66	54	4.3	1560	1.6	≤60	76	155	
180	FCCC3DY187*L12003*2	56	48	39	4.8	1560	2.7	≤60	86	120	
200	FCCC3DY207*H17503*2	70	65	53	4.2	2200	1.7	≤60	76	175	
220	FCCC3DY227*L13603*2	53	46	37	4.6	2460	3.1	≤60	86	136	
240	FCCC3DY247*L15503*2	70	70	57	4.4	2590	1.4	≤60	86	155	
270	FCCC3DY277*L15503*2	70	68	56	4.3	3100	1.5	≤60	86	175	

可根据客户要求定制。Customer products are available on request.

* 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

