

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
F	C	S	R	2	D	S	5	0	6	J	A	H	L	5	2	2	0	D
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	引线类型 Pin Style	外壳尺寸代码* Dimension Code	引线间距 Pitch P1	引线间距 Pitch P2	引线直径 Lead diameter						
FC=Film Capacitor	Square=S	450=2W	CBB138=DS			10=106	±5%=J	4Pin, 5mm=A	57.5×50×35 =HL	37.5=37	20.3=20	0.6=A						
		500=2H				15=156	±10%=K	2Pin, 5mm=B		52.5=52	0=00	0.8=B						
		550=2Y				20=206	Square=S	4pin, 4mm=S		27.5=27	1.0=C							
		600=2S				25=256	2pin, 8.2mm=E	1.2=D										
		700=2Q				30=306	2pin, 9.2mm=D	0.5=E										
		800=2K				35=356	2pin, 长引线=C											
		900=R2				40=406	2pin, 3.2mm=V											
		1000=3A				50=506	2pin, 3.5mm=U											
		1100=A3				60=606	2pin, 4.5mm=T											
		1200=3B				80=806												
		1300=O3																
		1500=C3																
		1700=F3																

*外壳尺寸表

Features

- PP film design, good temperature characteristics
- Stable capacity
- Low ESR, high ripple current handling capabilities
- Self-healing property
- Plastic case, filled with fire-retardant resin

Applications

- Used in Inverters of wind power and solar power
- Frequency converters
- Industrial and high-end power supplies

特点

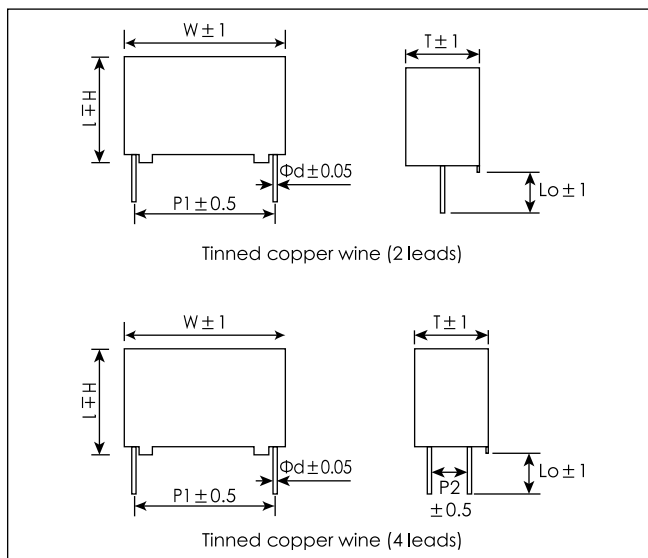
- 采用聚丙烯薄膜，温度特性好
- 容值稳定，变化率小
- 等效串联电阻小，能承受较大的纹波电流
- 有自愈性
- 塑壳，阻燃树脂灌封

应用场合

- 风能发电，太阳能发电
- 变频器
- 工业和高端电源

外形图 Dimensions

Unit: mm



标识 Marking

	—	1
CBB138	—	2
50μF J 800V	—	3
J02F12	—	4

NO.	项目 Item
1	商标 Brand
2	产品系列 Products series
3	容量、偏差以及额定电压 Capacitance、Tolerance and Rated voltage
4	日期代码 Date 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	40/105/56
工作温度范围 Operating Temperature Range	-40~+105 °C [$\Theta_{\text{hotspot}} \leq 105 \text{ °C}$] $\Theta_{\text{hotspot}} = 85 \text{ °C} \sim 105 \text{ °C}$: decreasing factor 1.35% per°C for U_R (dc)
存储温度范围 Storage Temperature Range	-40~+105 °C
额定电压 U_R Rated Voltage	450~1200 V _{DC}
电容量范围 Capacitance Range	1~120μF
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K)
端子与端子电压 U_{TT} Voltage Between Terminals	$1.5 \times U_{NDC}$, 10s (20 °C)
端子与铝壳电压 U_{TC} Voltage Between Terminals and Case	3000 V _{AC} , 10 s(20 °C, 50 Hz)
介质损耗角正切 Dielectric Dissipation Factor	0.0002
绝缘电阻 Insulation Resistance	$\geq 5000 \text{ M}\Omega \cdot \mu\text{F}$ (20 °C, 100V _{DC} , 1 min)
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)
预期寿命 Life Expectancy	100000 hours (U_R , $\Theta_{\text{hotspot}} = 70 \text{ °C}$)
失效率 Failure Rate	50 FIT

规格标准 Standard Ratings

U _r	C _r	P/N	dv/dt	İ	R _s	I _{max}	R _{th}	W	H	T	P ₁	P ₂	d
(V)	(μF)	-	(V/μs)	(A)	10KHz (mΩ)	10KHz 70°C(A)	(K/W)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
900	18.0	FCSR2DS186*AF93710C	35	630	7.5	12.0	9.3	42.5	44.0	24.0	37.5	10.2	1.0
	20.0	FCSR2DS206*BF3700C	35	700	6.0	14.0	8.5	42.5	45.0	30.0	37.5	\	1.0
	20.0	FCSR2DS206*AF3720D	35	700	5.5	15.0	8.1	42.5	45.0	30.0	37.5	20.3	1.2
	25.0	FCSR2DS256*BF3720D	35	875	5.5	17.0	6.3	42.5	45.0	30.0	37.5	20.3	1.2
	30.0	FCSR2DS306*AFK3720D	35	1050	5.0	19.0	5.5	42.5	50.0	35.0	37.5	20.3	1.2
	30.0	FCSR2DS306*AHH5220D	15	450	5.5	15.0	8.1	57.5	45.0	30.0	52.5	20.3	1.2
	35.0	FCSR2DS356*AH5220D	15	525	5.5	15.5	7.6	57.5	50.0	35.0	52.5	20.3	1.2
	40.0	FCSR2DS406*AH5220D	15	600	6.5	16.0	6.0	57.5	50.0	35.0	52.5	20.3	1.2
	50.0	FCSR2DS506*AH5220D	15	750	3.6	18.0	8.6	57.5	50.0	35.0	52.5	20.3	1.2
	55.0	FCSR2DS556*AH65220D	15	825	3.5	19.0	7.9	57.5	60.0	35.0	52.5	20.3	1.2
	55.0	FCSR2DS556*AH5220D	15	825	3.4	20.0	7.4	57.5	55.0	45.0	52.5	20.3	1.2
	60.0	FCSR2DS606*AH5220D	15	900	3.4	20.0	7.4	57.5	55.0	45.0	52.5	20.3	1.2
	60.0	FCSR2DS606*AKA5220D	15	900	3.4	20.0	7.4	57.5	65.0	35.0	52.5	20.3	1.2
	65.0	FCSR2DS656*AH85220D	15	975	3.3	22.0	6.3	57.5	70.0	35.0	52.5	20.3	1.2
	70.0	FCSR2DS706*AH5220D	15	1050	3.2	24.0	5.4	57.5	53.0	50.0	52.5	20.3	1.2
	70.0	FCSR2DS706*AK45220D	15	1050	3.2	24.0	5.4	57.5	80.0	35.0	52.5	20.3	1.2
80.0	FCSR2DS806*AH75220D	15	1200	3.2	25.0	5.0	57.5	65.0	45.0	52.5	20.3	1.2	
1000	1.0	FCS3ADS105*BI42700B	70	70	45.0	2.5	35.6	32.0	20.0	11.0	27.5	\	0.8
	2.0	FCS3ADS205*BI72700B	60	120	30.0	3.5	27.2	32.0	22.0	13.0	27.5	\	0.8
	3.0	FCS3ADS305*BIJ2700B	60	180	25.0	5.0	16.0	32.0	24.5	15.0	27.5	\	0.8
	5.0	FCS3ADS505*BF2700B	60	300	14.0	8.0	11.2	32.0	33.0	18.0	27.5	\	0.8
	8.0	FCS3ADS805*BIJ2700B	60	480	12.0	10.0	8.3	32.0	37.0	22.0	27.5	\	0.8
	10.0	FCS3ADS106*BF23700C	35	350	12.0	8.5	11.5	42.5	40.0	20.0	37.5	\	1.0
	10.0	FCS3ADS106*AF23710C	35	350	11.5	9.5	9.6	42.5	40.0	20.0	37.5	10.2	1.0
	12.0	FCS3ADS126*AF93710C	35	420	9.0	10.5	10.1	42.5	44.0	24.0	37.5	10.2	1.0
	15.0	FCS3ADS156*BF93710C	35	525	8.0	10.5	11.3	42.5	44.0	24.0	37.5	\	1.0
	15.0	FCS3ADS156*AF93710C	35	525	7.5	12.0	9.3	42.5	44.0	24.0	37.5	10.2	1.0
	15.0	FCS3ADS156*AF3720D	35	525	7.5	14.0	6.8	42.5	45.0	30.0	37.5	20.3	1.2
	20.0	FCS3ADS206*AF3720D	35	700	6.5	15.0	6.8	42.5	45.0	30.0	37.5	20.3	1.2
	25.0	FCS3ADS256*AFK3720D	35	875	5.5	18.0	5.6	42.5	50.0	35.0	37.5	20.3	1.2
	30.0	FCS3ADS306*AH5220D	15	450	5.5	15.0	8.1	57.5	45.0	30.0	52.5	20.3	1.2
	35.0	FCS3ADS356*AH5220D	15	525	5.5	16.0	7.1	57.5	50.0	35.0	52.5	20.3	1.2
	40.0	FCS3ADS406*AH5220D	15	600	5.0	16.0	7.8	57.5	50.0	35.0	52.5	20.3	1.2
	40.0	FCS3ADS406*AH65220D	15	600	5.0	17.0	6.9	57.5	60.0	35.0	52.5	20.3	1.2
	50.0	FCS3ADS506*AH5220D	15	750	4.5	19.0	6.2	57.5	55.0	45.0	52.5	20.3	1.2
	50.0	FCS3ADS506*AKA5220D	15	750	4.5	19.0	6.2	57.5	65.0	35.0	52.5	20.3	1.2
	55.0	FCS3ADS556*AH85220D	15	825	4.4	20.0	5.7	57.5	70.0	35.0	52.5	20.3	1.2
60.0	FCS3ADS606*AH5220D	15	900	4.0	22.0	5.2	57.5	53.0	50.0	52.5	20.3	1.2	
60.0	FCS3ADS606*AK45220D	15	900	4.0	22.0	5.2	57.5	80.0	35.0	52.5	20.3	1.2	
60.0	FCS3ADS606*AH75220D	15	900	4.0	22.0	5.2	57.5	65.0	45.0	52.5	20.3	1.2	
1100	1.0	FCSA3DS105*BI42700B	70	70	45.0	2.5	35.6	32.0	20.0	11.0	27.5	\	0.8
	1.5	FCSA3DS155*BI72700B	70	105	30.0	3.5	27.2	32.0	22.0	13.0	27.5	\	0.8
	2.0	FCSA3DS205*BIJ2700B	70	140	25.0	4.0	25.0	32.0	24.5	15.0	27.5	\	0.8
	2.2	FCSA3DS225*BIJ2700B	70	154	16.5	5.0	24.2	32.0	28.0	14.0	27.5	\	0.8
	3.3	FCSA3DS335*BIJ2700B	70	231	11.5	6.5	20.6	32.0	28.0	18.0	27.5	\	0.8
	4.0	FCSA3DS405*BIJ2700B	70	280	10.5	8.0	14.9	32.0	33.0	18.0	27.5	\	0.8
	5.0	FCSA3DS505*BIJ2700B	70	350	9.5	8.5	14.6	32.0	37.0	22.0	27.5	\	0.8
	6.8	FCSA3DS685*AF13710C	40	272	13.5	12.0	5.1	42.5	33.5	22.0	37.5	10.2	1.0
	8.0	FCSA3DS805*BF23700C	40	320	14.0	10.5	6.5	42.5	40.0	20.0	37.5	\	1.0
	8.0	FCSA3DS805*AF23710C	40	320	12.5	12.5	5.1	42.5	40.0	20.0	37.5	10.2	1.0
	8.0	FCSA3DS805*AFQ3710C	40	320	12.5	12.5	5.1	42.5	37.0	22.0	37.5	10.2	1.0
	9.0	FCSA3DS905*AFQ3710C	40	360	12.2	12.8	5.0	42.5	37.0	22.0	37.5	10.2	1.0
	10.0	FCSA3DS106*BF93700C	40	400	9.0	14.0	5.7	42.5	44.0	24.0	37.5	\	1.0
	10.0	FCSA3DS106*AF93710C	40	400	8.5	15.0	5.2	42.5	44.0	24.0	37.5	10.2	1.0
	12.0	FCSA3DS126*AF3720D	40	480	7.5	15.5	5.5	42.5	45.0	30.0	37.5	20.3	1.2
	15.0	FCSA3DS156*AF3720D	40	600	7.0	16.0	5.6	42.5	45.0	30.0	37.5	20.3	1.2
	18.0	FCSA3DS186*AFK3720D	40	720	7.5	15.5	5.5	42.5	50.0	35.0	37.5	20.3	1.2
	20.0	FCSA3DS206*AFK3720D	20	400	7.2	16.5	5.1	42.5	50.0	35.0	37.5	20.3	1.2
	20.0	FCSA3DS206*AHH5220D	20	400	8.5	12.0	8.2	57.5	45.0	30.0	52.5	20.3	1.2
	25.0	FCSA3DS256*AH5220D	20	500	8.2	13.0	7.2	57.5	50.0	35.0	52.5	20.3	1.2
30.0	FCSA3DS306*AH5220D	20	600	5.0	15.0	8.9	57.5	50.0	35.0	52.5	20.3	1.2	
35.0	FCSA3DS356*AH65220D	20	700	4.9	16.0	8.0	57.5	60.0	35.0	52.5	20.3	1.2	
40.0	FCSA3DS406*AKA5220D	20	800	5.5	17.0	6.3	57.5	65.0	35.0	52.5	20.3	1.2	
40.0	FCSA3DS406*AH5220D	20	800	5.5	17.0	6.3	57.5	55.0	45.0	52.5	20.3	1.2	
45.0	FCSA3DS456*AH85220D	20	900	5.4	18.0	5.7	57.5	70.0	35.0	52.5	20.3	1.2	
50.0	FCSA3DS506*AH75220D	20	1000	5.2	19.5	5.1	57.5	65.0	45.0	52.5	20.3	1.2	
50.0	FCSA3DS506*AH5220D	20	1000	4.5	20.0	5.6	57.5	53.0	50.0	52.5	20.3	1.2	
1200	1.0	FCS3BDS105*BI42700B	80	80	32.5	4.5	15.2	32.0	20.0	11.0	27.5	\	0.8
	2.0	FCS3BDS205*BIJ2700B	80	160	32.5	5.0	12.3	32.0	24.5	15.0	27.5	\	0.8
	2.2	FCS3BDS225*BIJ2700B	80	176	17.0	5.5	19.4	32.0	28.0	18.0	27.5	\	0.8
	3.0	FCS3BDS305*BIJ2700B	80	240	16.0	7.0	12.8	32.0	28.0	18.0	27.5	\	0.8
	3.3	FCS3BDS335*BIJ2700B	80	264	13.5	8.0	11.6	32.0	33.0	18.0	27.5	\	0.8
	5.0	FCS3BDS505*BIJ2700B	80	400	12.0	10.0	8.3	32.0	37.0	22.0	27.5	\	0.8
	5.0	FCS3BDS505*BF3700C	45	225	15.5	7.5	11.5	42.5	33.5	22.0	37.5	\	1.0
	6.0	FCS3BDS605*BF23700C	45	270	15.5	7.5	11.5	42.5	40.0	20.0	37.5	\	1.0
	7.0	FCS3BDS705*AFQ3710C	45	315	15.2	8.0	10.3	42.5	37.0	22.0	37.5	10.2	1.0
	8.0	FCS3BDS805*AF93710C	45	360	12.5	9.0	9.9	42.5	44.0	24.0	37.5	10.2	1.0
10.0	FCS3BDS106*AF93710C	45	450	10.5	10.0	9.5	42.5	44.0	24.0	37.5	10.2	1.0	
10.0	FCS3BDS106*AF3720D	45	450	8.0	12.0	8.7	42.5	45.0	30.0	37.5	20.3	1.2	

规格标准 Standard Ratings

U_R	C_R	P/N	dv/dt	\hat{i}	R_s	I_{max}	R_{th}	W	H	T	P_1	P_2	d
(V)	(μF)	-	(V/ μs)	(A)	10KHz (m Ω)	10KHz 70°C(A)	(K/W)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
1200	15.0	FCS3BDS156*AFK3720D	45	675	6.5	15.0	6.8	42.5	50.0	35.0	37.5	20.3	1.2
	20.0	FCS3BDS206*AHH5220D	25	500	8.5	13.0	7.0	57.5	45.0	30.0	52.5	20.3	1.2
	25.0	FCS3BDS256*AHL5220D	25	625	6.5	15.0	6.8	57.5	50.0	35.0	52.5	20.3	1.2
	30.0	FCS3BDS306*AHS5220D	25	750	5.5	17.0	6.3	57.5	55.0	45.0	52.5	20.3	1.2
	30.0	FCS3BDS306*AH65220D	25	750	5.5	17.0	6.3	57.5	60.0	35.0	52.5	20.3	1.2
	35.0	FCS3BDS356*AHS5220D	25	875	5.0	18.0	6.2	57.5	55.0	45.0	52.5	20.3	1.2
	35.0	FCS3BDS356*AH85220D	25	875	5.0	18.0	6.2	57.5	70.0	35.0	52.5	20.3	1.2
	40.0	FCS3BDS406*AHA5220D	25	1000	4.5	20.0	5.6	57.5	53.0	50.0	52.5	20.3	1.2
45.0	FCS3BDS456*AHR5220D	25	1125	4.3	22.0	4.8	57.5	65.0	45.0	52.5	20.3	1.2	

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

预期寿命曲线 Expected lifetime curve

