

#### ■ Features

- PP film design, good temperature characteristics
- Stable capacity
- Low ESR, high ripple current handing 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

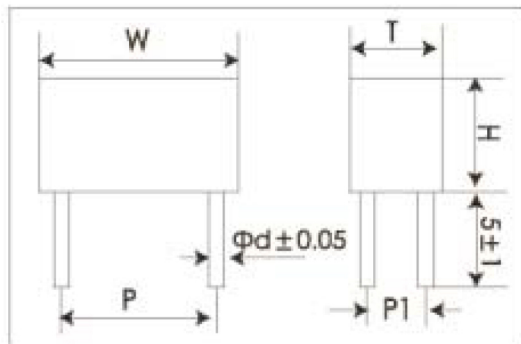
#### ■ 特点

- 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



### 标识 Marking

HSBST		1
CBB138		2
50μF J 800V		3

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

### ■ 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 °C ( $\Theta_{\max}(\text{hotspot}) \leq 85 \text{ °C}$ )
存储温度范围 Storage Temperature Range	-40~+85 °C
额定电压 $U_R$ Rated Voltage	700~1100 V <sub>DC</sub>
电容量范围 Capacitance Range	10~90 μF
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 <sub>DC</sub> , 10s(20 °C, 50 Hz)
端子与铝壳电压 $U_{TC}$ Voltage Between Terminals and Case	2× $U_i$ +1000 or 3000V <sub>AC</sub> 取大者, 10s(20 °C, 50 Hz)
介质损耗角正切 Dielectric Dissipation Factor	$\leq 2 \times 10^{-4}$
绝缘电阻 Insulation Resistance	$\geq 5000 \text{ M}\Omega \cdot \mu\text{F}$ (20 °C, 100V <sub>DC</sub> , 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, 100 ms/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 <sub>R</sub>	C <sub>R</sub>	P/N	dV/dt	$\hat{I}$	R <sub>S</sub>	I <sub>max</sub>	W	H	T	P	P1	d
(V)	(μF)	-	(20℃) (V/μS)	(A)	100K Hz(mΩ)	100KHz @70℃(A)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
700	30	FCS2QDS306*F4E	30	900	4.8	25.1	42.5	45	30	37.5	20.3	1.2
	45	FCS2QDS456*H4E	15	675	6.5	18.5	57.5	45	30	52.5	20.3	1.2
	60	FCS2QDS606*H4E	15	900	5.9	20.2	57.5	50	35	52.5	20.3	1.2
	80	FCS2QDS806*H4E	15	1200	4.2	28.3	57.5	55	40	52.5	20.3	1.2
900	25	FCSR2DS256*F4E	30	750	6.9	16.8	42.5	45	30	37.5	20.3	1.2
	40	FCSR2DS406*H4E	15	600	8.9	13.5	57.5	45	30	52.5	20.3	1.2
	50	FCSR2DS506*H4E	15	750	7.1	16.8	57.5	50	35	52.5	20.3	1.2
	60	FCSR2DS606*H4E	15	900	5.5	21.9	57.5	55	40	52.5	20.3	1.2
1100	10	FCSA3DS106*F4E	40	400	14.5	8.3	42.5	45	30	37.5	20.3	1.2
	20	FCSA3DS206*H4E	20	400	14.5	8.3	57.5	45	30	52.5	20.3	1.2
	25	FCSA3DS256*H4E	20	500	11.6	10.4	57.5	50	35	52.5	20.3	1.2
	30	FCSA3DS306*H4E	20	600	9.7	12.4	57.5	55	40	52.5	20.3	1.2

Customer products are available on request.

可根据客户要求定制。

\* R<sub>th</sub> 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

