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	C	2	F	A	Q	2	0	7	K	H	1	2	5	9	6	1	A
电容器类型 Capacitor Type		产品外形 Product Shape	额定电压代码 Rated Voltage Code (AC)		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	底部固定孔 Bottom Stud Hole	图号 Style
FC=Film Capacitor		Column=C	250=2F		CBB237=AQ		10=106			±5%=J	50=D	75=075			Female M6*10=0	32=3	With=1	Style A=A
			330=3D				30=306			±10%=K	65=G	100=100			Female M8*10=2	50=5	Without=0	Style B=B
			450=4F				80=806			Special=S	76=H	125=125			Female M10*10=4	30=6		Style C=C
			480=4J				100=107				86=L	180=180			Male M6*20=1	13.5=X		
			550=5F				150=157				106=K	200=200			Male M8*20=3	18=Y		
			660=6G				200=207				116=P	247=247			Male M10*20=5	16=Z		
			690=6K				350=357								Male M8*16=9	20=W		
			600=6A				450=457								Male M10*22=Z	35=V		
															Male M10*16=7			
															2=A			
															4=B			
															M10*24=X			

CBB237 AQ SERIES

Features

- ■Used as AC filtering
- ■PP film design, good temperature characteristics
- ■Stable capacity
- ■Low ESR, high RMS current handing capabilities
- ■Overpressure disconnection device
- ■Self-healing property
- ■Aluminum case , filled with soft PU resin

特点

- ■交流滤波用
- ■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，承受较大的有效值电流
- ■过压力断开装置
- ■有自愈性
- ■铝壳，软树脂灌封

Applications

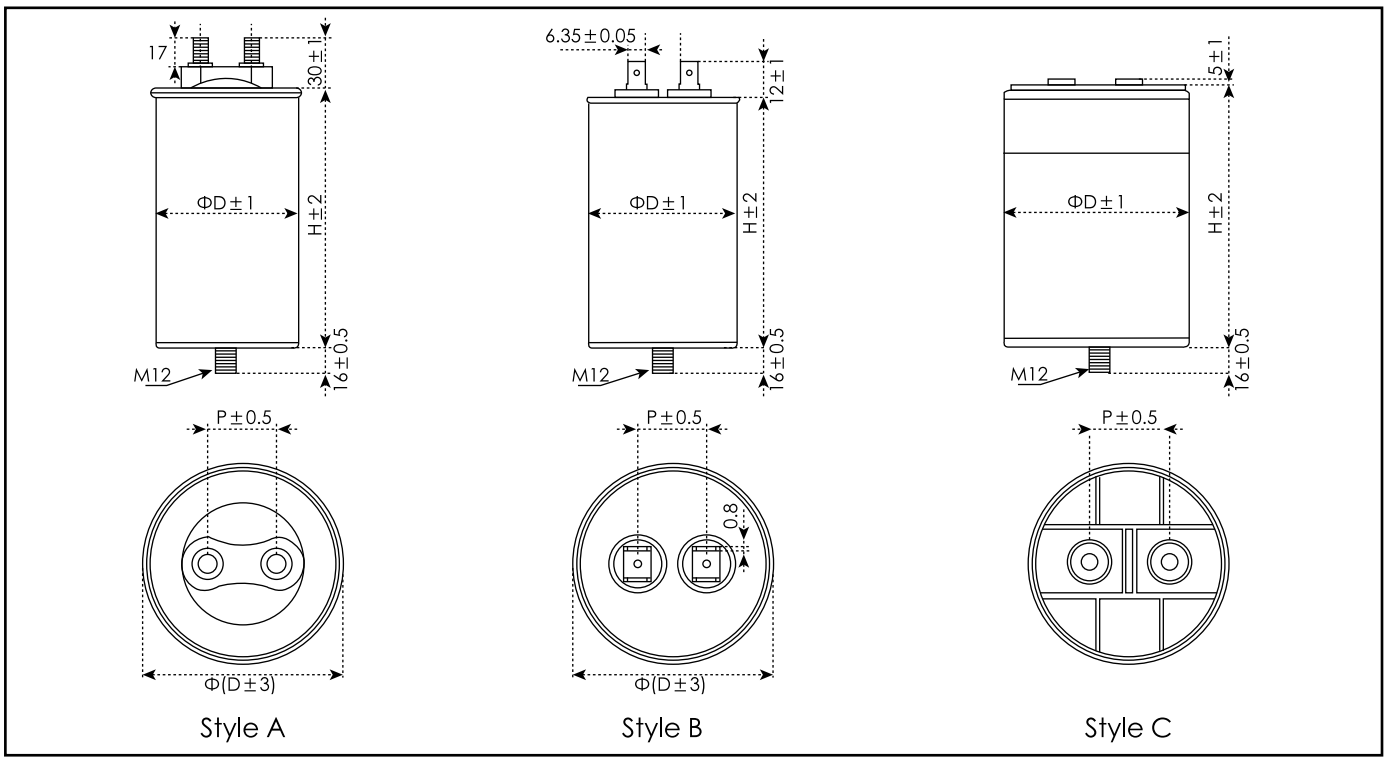
- ■Wind energy, Solar
- ■UPS application

应用场合

- ■风能，太阳能
- ■UPS电源

外形图 Dimensions

Unit: mm



Style A　Style B　Style C

标识 Marking

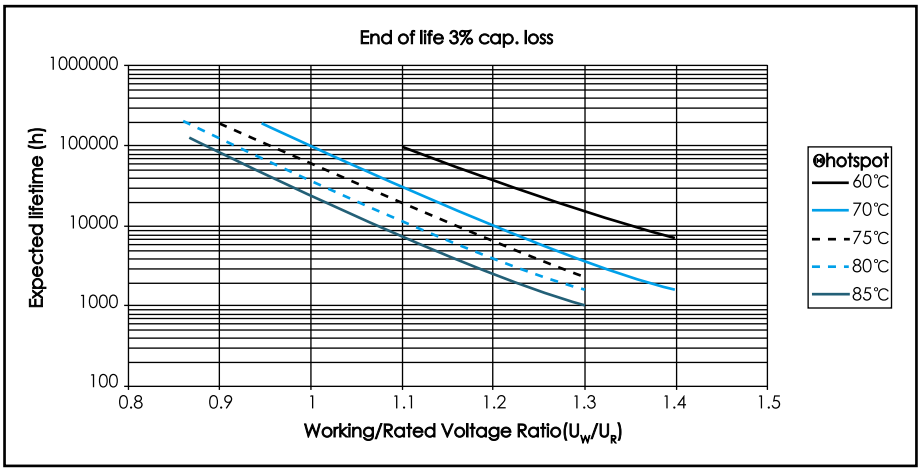
CBB237
200μF±10%
U_R=250V_{AC} SH
U_{TC}=3000V　50/60Hz
-40~+70℃　IEC61071
Discharge before handling
J37F35

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U_{TC} 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	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) , IEC60831	
气候类别 Climatic Category	40/85/56	
工作温度范围 Operating Temperature Range	-40~+70℃ ($\Theta_{hotspot}$≤85℃)	
存储温度范围 Storage Temperature Range	-40~+85℃	
额定电压U_R Rated Voltage	250～690V_{AC}	
电容量范围 Capacitance Range	10~600 μF	
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K)	
端子与端子电压U_{TT} Voltage Between Terminals	2.15 U_N (V_{AC}), 10s(20 ℃)	
端子与铝壳电压U_{TC} Voltage Between Terminals and Case	4000 V_{AC}, 10 s(20 ℃, 50 Hz)	
介质损耗角正切 Dielectric Dissipation Factor	≤2×10^{-4}	
绝缘电阻 Insulation Resistance	≥5000MΩ • μF (20℃, 100V_{DC}, 1min)	
过电压 Over Voltage	1.1U_R	(30% of on-load-duration)
	1.15U_R	(30 min/day)
	1.2U_R	(5 min/day)
	1.3U_R	(1 min/day)
	1.5U_R	(30 ms every time, 100ms/day)
最大电极扭矩 Max Torque of terminals	M6: 4 Nm	M8: 6 Nm
最大安装扭矩 Max Torque of installation	M12: 12 Nm	
预期寿命 Life Expectancy	100000 hours (U_R, $\Theta_{hotspot}$=70℃)	
失效率 Failure Rate	100 FIT	

预期寿命曲线 Expected lifetime curve



警告 Cautions and warnings

■In case of dents of more than 1 mm depth or any other mechanical damage, capacitors must not be used at all.
电容器如有深度超过1毫米的凹痕或其他机械损伤不可以使用。
■To ensure the full functionality of the overpressure disconnector, elastic elements must not be hindered and a minimum space of 12 mm has to be kept above each capacitor.
为了保证过压力断路器的全部功能，每个电容器上方须有至少12毫米的空间，弹性元件不能被阻碍。
■Do not handle the capacitor before it is discharged.
在电容器放电之前，不能处置电容器。
■The threaded bottom stud of the capacitor has to be used for grounding. The maximum tightening torque is 12Nm
电容器的底部螺杆仅用于接地使用，最大扭矩12Nm。
■Do not use or store capacitor in corrosive atmosphere, in the dusty environments regular maintenance and cleaning especially of the terminals is required to avoid conductive path between phase / or phase and ground.
电容器不能用在或存储在腐蚀性环境。在多灰尘的环境里，要求定期维护和清洁，特别是电极端子，以避免相与相间或相与地之间有导电通路。
■Do not have unlimited service life expectancy, the max service life expectancy may vary depending on the application the capacitor is used in.
电容器的寿命是有限的，最大工作寿命因使用条件的不同而不同。

规格标准 Standard Ratings

Urms/U_N	C_R	P/N	R_{th}	I_{max}	$\hat{I}$	dV/dt	Rs	P	D	H
(V_{AC})	(μF)	-	(K/W)	(A)	(A)	(V/μS)	(mΩ)	(mm)	(mm)	(mm)
250/350	60	FCC2FAQ606*D100**1B	7.8	16	999	16.7	3.9	20	50	100
	80	FCC2FAQ806*D100**1B	7.8	16	1332	16.7	4.4	20	50	100
	100	FCC2FAQ107*D125**1B	6.3	16	1260	12.6	4.6	20	50	125
	120	FCC2FAQ127*D125**1B	6.0	16	1512	12.6	4.8	20	55	125
	150	FCC2FAQ157*G130**1B	5.3	16	1890	12.6	4.3	20	60	125
	150	FCC2FAQ157*H122**1A	4.7	22	1620	10.8	3.3	30	76	125
	175	FCC2FAQ177*G125**1B	5.5	16	2205	12.6	4.0	20	63.5	125
	200	FCC2FAQ207*H125**1A	4.7	30	2340	11.7	3.0	30	76	125
	230	FCC2FAQ237*H152**1A	4.3	30	1987.2	8.6	3.5	30	76	150
	250	FCC2FAQ257*H152**1A	4.3	30	2160	8.6	3.4	30	76	150
	300	FCC2FAQ307*H152**1A	4.0	36	2592	8.6	3.2	30	86	150
	330	FCC2FAQ337*L200**1A	4.0	40	3622.5	10.4	3.1	30	86	150
	350	FCC2FAQ357*L152**1A	4.0	35	3622.5	10.4	3.1	30	76	200
	400	FCC2FAQ407*L152**1A	4.0	40	4140	10.4	3.0	30	86	200
	500	FCC2FAQ507*L210**1A	2.9	50	5400	10.8	3.3	30	86	200
	600	FCC2FAQ607*L210**1A	2.5	50	4806	8	3.1	30	86	250
330/460	50	FCC3DAQ506*D100**1B	7.8	16	832.5	16.7	5.1	20	50	100
	60	FCC3DAQ606*D125**1B	6.3	16	756	12.6	5.4	20	50	125
	100	FCC3DAQ107*G130**1B	5.3	16	1260	12.6	4.1	20	60	125
	100	FCC3DAQ107*H122**1A	5.2	30	1305	13.1	3.8	30	76	125
	120	FCC3DAQ127*G130**1B	5.5	16	864	7.2	3.8	20	63.5	125
	150	FCC3DAQ157*H152**1A	4.3	40	1350	9	4.2	30	76	150
	175	FCC3DAQ177*G165**1A	4.2	40	1496.3	8.6	4.2	30	76	150
	200	FCC3DAQ207*H180**1A	3.6	40	2610	13.1	3.7	30	76	200
	200	FCC3DAQ207*L152**1A	4.0	40	2610	13.1	3.1	30	86	150
	250	FCC3DAQ257*H180**1A	4.0	40	2137.5	8.6	3.9	30	76	200
	300	FCC3DAQ307*L180**1A	2.9	50	3915	13.1	3.6	30	86	200
	350	FCC3DAQ357*L210**1A	2.9	50	4567.5	13.1	3.4	30	86	200
	400	FCC3DAQ407*L247**1A	2.5	50	3240	8.1	3.6	30	86	250
	450	FCC3DAQ457*L247**1A	2.5	50	3645	8.1	3.5	30	86	250
450/630	20	FCC4FAQ206*D075**1B	10.5	16	700	35	5.2	20	50	75
	30	FCC4FAQ306*D100**1B	7.8	16	700	23.3	6.9	20	50	100
	33	FCC4FAQ336*D100**1B	7.8	16	700	21.2	6.4	20	50	100
	40	FCC4FAQ406*G100**1B	7.8	16	540	13.5	5.7	20	50	100
	50	FCC4FAQ506*G125**1B	5.3	16	540	10.8	5.0	20	60	125
	50	FCC4FAQ506*H107**1A	5.3	20	855	17.1	3.3	30	76	100
	70	FCC4FAQ706*G125**1B	5.5	16	907	13	4.8	20	60	125
	80	FCC4FAQ806*G125**1B	5.5	16	907.2	11.3	4.4	20	60	125
	90	FCC4FAQ906*G125**1B	5.5	16	1020.6	11.3	5.0	20	63.5	125
	100	FCC4FAQ107*H152**1A	4.3	35	1080	10.8	4.7	30	76	150
	150	FCC4FAQ157*L152**1A	4.3	40	1957.5	13.1	3.9	30	86	150
	200	FCC4FAQ207*L210**1A	2.9	40	2700	13.5	3.7	30	86	200
	250	FCC4FAQ257*L247**1A	2.9	50	2025	8.1	3.8	30	86	200
	300	FCC4FAQ307*L247**1A	2.5	50	2403	8	4.1	30	86	250
480/675	20	FCC4JAQ206*G075**1B	10.5	16	750	37.5	4.8	20	50	75
	25	FCC4JAQ256*G080**1B	7.8	16	750	30.0	4.2	20	50	100
	30	FCC4JAQ306*G080**1B	7.8	16	750	25.0	3.9	20	50	100
	40	FCC4JAQ406*G100**1B	7.3	16	850	21.3	5.2	20	60	100
	50	FCC4JAQ506*G100**1B	6.0	16	850	17.0	4.6	20	55	125
	50	FCC4JAQ506*H107**1A	5.0	20	950	19.0	3.2	30	76	100
	60	FCC4JAQ606*H122**1A	4.7	25	1053	17.6	3.7	30	76	125
	70	FCC4JAQ706*H152**1A	4.7	30	1575	22.5	4.4	30	76	125
	80	FCC4JAQ806*H152**1A	4.3	30	1224	15.3	4.2	30	76	150
	100	FCC4JAQ107*H197**1A	4.0	40	1710	17.1	4.1	30	76	200
	150	FCC4JAQ157*L197**1A	4.0	40	2565	17.1	3.5	30	76	200
	200	FCC4JAQ207*L247**1A	3.0	40	2610	13.1	4.6	30	76	250
	250	FCC4JAQ257*L247**1A	2.5	50	2925	11.7	4.2	30	86	250

规格标准 Standard Ratings

U_R	C_R	P/N	R_{th}	I_{max}	Î	dV/dt	Rs	P	D	H
(V_{AC})	(μF)	-	(K/W)	50℃(A)	(A)	(V/μS)	(mΩ)	(mm)	(mm)	(mm)
550/770	20	FCC5FAQ206*D100**1B	7.9	16	600	30.0	6.9	20	50	100
	30	FCC5FAQ306*D125**1B	6.3	16	750	25.0	6.6	20	50	125
	40	FCC5FAQ406*G125**1B	5.5	16	750	18.8	7.1	20	60	125
	50	FCC5FAQ506*G130**1B	5.3	16	850	17.0	6.1	20	63.5	125
	70	FCC5FAQ706*G165**1A	4.2	25	900	12.9	4.6	30	76	150
	80	FCC5FAQ806*H180**1A	4.3	25	1800	22.5	4.3	30	76	150
	100	FCC5FAQ107*L180**1A	4.0	30	2821	28.2	3.9	30	86	150
	125	FCC5FAQ127*L180**1A	2.9	30	2821	22.6	3.6	30	86	200
	150	FCC5FAQ157*L247**1A	2.9	40	3217	21.4	5.0	30	86	200
	200	FCC5FAQ207*L247**1A	2.5	50	3217	16.1	4.4	30	86	250
	250	FCC5FAQ257*K247**1A	2.1	50	3500	14.0	4.0	30	96	250
	300	FCC5FAQ307*K247**1A	2.0	50	3500	11.7	3.7	30	106	250
600/850	10	FCC6AAQ106*D075**1B	10.5	16	350	35.0	6.4	20	50	75
	20	FCC6AAQ206*D125**1B	6.3	16	500	25.0	11.1	20	50	125
	25	FCC6AAQ256*D125**1B	6.3	16	500	20.0	9.3	20	50	125
	30	FCC6AAQ306*G100**1B	5.3	16	600	20.0	5.4	20	60	125
	35	FCC6AAQ356*G125**1B	5.3	16	700	20.0	7.3	20	60	125
	40	FCC6AAQ406*G125**1B	5.3	16	700	17.5	6.6	20	63.5	125
	45	FCC6AAQ456*G125**1B	5.3	16	700	15.6	6.1	20	65	125
	50	FCC6AAQ506*G152**1A	4.3	20	850.0	17.0	5.7	30	76	150
660/930	10	FCC6GAQ106*D100**1B	6.3	16	400	40	8.2	20	50	125
	12	FCC6GAQ126*D100**1B	6.3	16	420	35	7.2	20	50	125
	15	FCC6GAQ156*D125**1B	6.3	16	420	28	6.2	20	50	125
	18	FCC6GAQ186*D125**1B	6.3	16	450	25	5.5	20	50	125
	20	FCC6GAQ206*D125**1B	6.0	16	550	27.5	8.3	20	55	125
	25	FCC6GAQ256*D150**1B	5.3	16	550	22	7.9	20	60	125
	30	FCC6GAQ306*G125**1B	5.5	16	750	25	6.3	20	65	125
	35	FCC6GAQ356*G125**1A	4.3	30	750	21.4	5.7	30	76	150
	40	FCC6GAQ406*G150**1A	4.3	30	900	22.5	5.2	30	76	150
	45	FCC6GAQ456*G150**1A	4.0	40	900	20	4.9	30	86	150
	50	FCC6GAQ506*G194**1A	4.0	40	1000	20	4.7	30	86	150
690/980	10	FCC6GAQ106*D125**1B	6.3	16	750	75	7.2	20	50	125
	15	FCC6GAQ156*D125**1B	6.3	16	750	50	9.0	20	50	125
	20	FCC6GAQ206*G125**1B	6.0	16	900	45	7.3	20	55	125
	30	FCC6GAQ306*G125**1B	5.5	16	900	30	5.6	20	63.5	125
	40	FCC6GAQ406*H180**1A	4.3	25	1150	28.8	4.8	30	76	150
	50	FCC6GAQ506*H180**1A	4.0	30	1150	23	4.3	30	86	150
	70	FCC6GAQ706*L210**1A	2.9	30	1260	18	3.7	30	76	250
	85	FCC6GAQ856*K210**1A	2.5	40	1530	18	3.5	30	86	250
	100	FCC6GAQ107*L247**1A	2.5	40	1800	18	3.3	30	86	250
	125	FCC6GAQ127*K247**1A	2.0	50	1563	12.5	4.0	30	106	250
	150	FCC6GAQ157*K247**1A	2.0	50	1875	12.5	3.8	30	106	250
	170	FCC6GAQ177*K247**1A	2.0	50	2125	12.5	3.6	30	106	250

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