



**CAPACITOR
COMPETENCE**
since 1958

FILM CAPACITORS

FILM CAPACITORS · AC FILTER

CBB 237 AQ SERIES

JIANGHAI EUROPE
Electronic Components GmbH



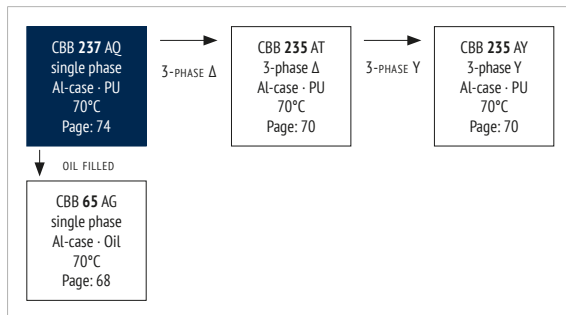
ENGINEERED SOLUTIONS

v2020.1

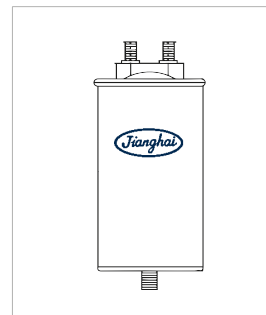
FEATURES

- Used in AC filtering
- Excellent Temperature behavior
- Self-healing
- Overpressure disconnecter design
- Aluminum case, filled with soft PU resin

OVERVIEW



PRODUCT



APPLICATIONS

- Solar
- Wind energy
- UPS

CHARACTERISTICS

ITEM	CHARACTERISTICS
Reference Standard	GB/T 17702 (IEC 61071) , IEC60831
Climatic Category	40/70/56
Operating Temperature Range	-40 ~ +70°C ($\theta_{hotspot} \leq 85^\circ\text{C}$)
Storage Temperature Range	-40 ~ +85°C
Rated Voltage U_{RMS}	250 ~ 690 V _{AC}
Capacitance Range	10 ~ 600 μF
Capacitance Tolerance	$\pm 5\%$ (J), $\pm 10\%$ (K)
U_{TT} Voltage between Terminals	$2,15 \times U_N$, 10s (20°C)
U_{TC} Voltage between Terminals & Case	$\geq 4.000V_{AC}$, 10s (20°C, 50 Hz)
Dielectric Dissipation Factor $\tan \delta_0$	$\leq 2 \times 10^{-4}$
Insulation Resistance R ₀ °C	$\geq 5.000 \text{ M}\Omega \cdot \mu\text{F}$ (20°C, 100 V _{DC} , 1min)
Max. Overvoltage	$1,1 \times U_N$ (30% of on-load-duration) $1,15 \times U_N$ (30 min/day) $1,2 \times U_N$ (5 min/day) $1,3 \times U_N$ (1 min/day) $1,5 \times U_N$ (30ms every time, 100 ms/day)
Max. Torque of terminals	M6: 4Nm M8: 6Nm
Max. Torque of stud	M12: 10Nm
Life Expectancy	100.000 hours (UR, $\theta_{hotspot} = 70^\circ\text{C}$)
Failure Rate	100 FIT

ENVIRONMENTAL

The products are RoHS, WEEE and REACH compliant.

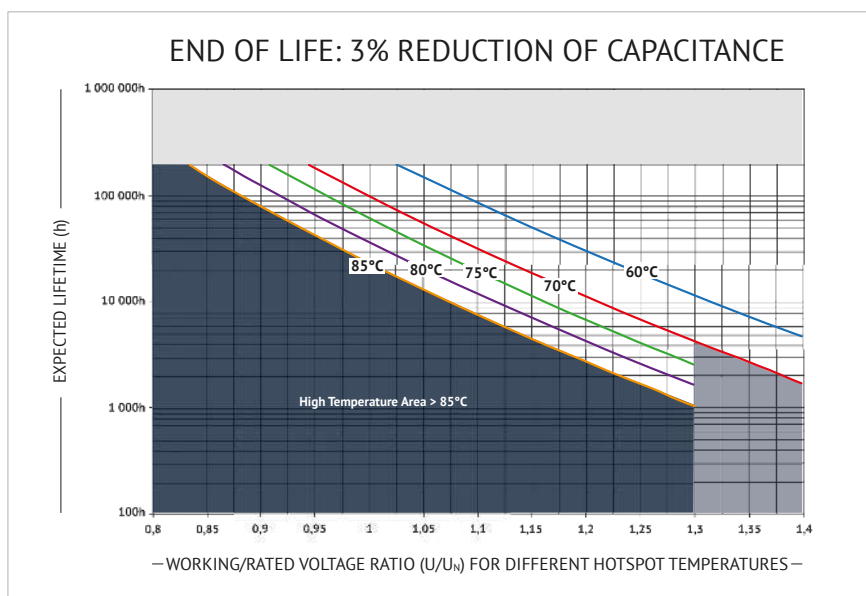
The detailed version please see separate "Environmental Certificates" document or www.jianghai-europe.com

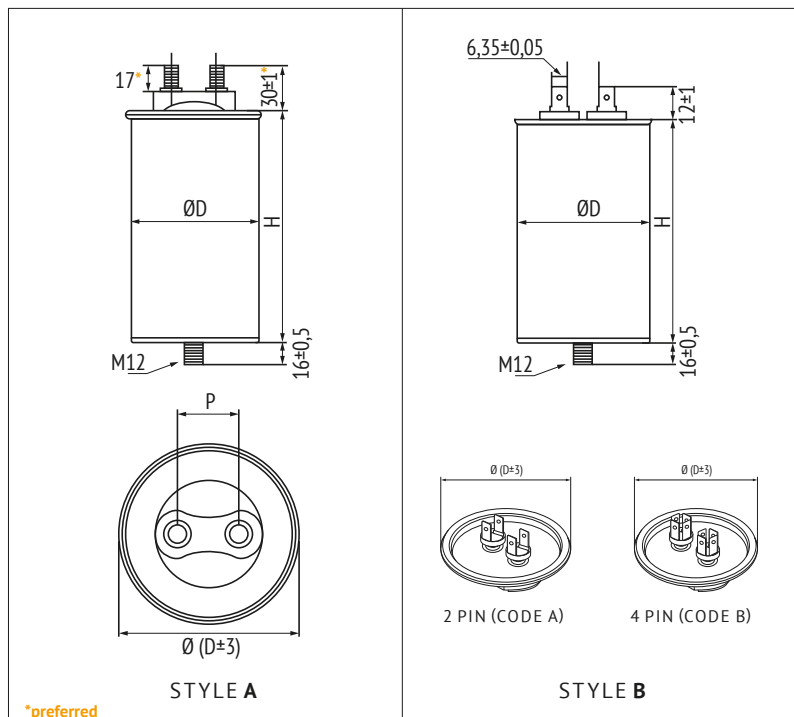
APPROVALS

UL94-V0:
Plastic & Compound Mass

UL810:
CYWT2.E483921

LIFETIME



DIMENSIONS AND CAN STYLE


CAUTION
The style has impact on the current.

in mm

MARKING

	BRAND
CBB 237	SERIES DESIGNATION
200µF ±10%	CAPACITANCE AND TOLERANCE
U_R = 250V_{AC} SH	U _R RATED VOLTAGE
U_{TC} = 3000V 50/60 HZ	U _{TC} VOLTAGE BETWEEN TERMINALS AND CASE, FREQUENCY
-40~+70°C IEC61071	TEMPERATURE RANGE, REFERENCE STANDARD
Discharge before handling	SAFETY WARNING
J37F35	DATE CODE

ORDER CODE

FC	C	4F	AQ	107	K	L	055	3	X	1	A	E3	
Capacitor type	Product shape	AC rated voltage code (V)	Series code	Capacitance Code Examples (µF)	Capacitance tolerance	Diameter (mm)	Height (mm)	Terminal Style	Terminal Pitch (mm)	Stud Bolt Mounting	Can Style	For internal use	
Film Cap. = FC	cylindrical = C	250 2F 330 3D 450 4F 480 4J 550 5F 600 6A 660 6G 690 6K	CBB 237 = AQ	10 106 80 806 100 107 150 157 350 357 450 457	±5% J ±10% K	50 D 55 C 60 F 63,5 E 65 G 76 H 86 L 96 W 106 K	75 075 100 100 125 125 200 200 247 247	Male M6*10 Male M6*20 Male M8*10 Male M8*16 Male M8*20 Male M10*10 Male M10*16 Male M10*20 2 Pin 4 Pin	0 1 2 9 3 4 7 5 A B	13,5 X 16 Z 18 Y 20 W 30 6 32 3 35 V 50 5	bolt M12x16 flat, without bracket	1 0	Style A A Style B B



RATINGS

U _{max} /U _n ≤70°C (V _{ac})	C _a (μF)	dV/dt (V/μs)	I _{max} 50°C 1kHz (A)	Ī ⁽¹⁾ (A)	R _s 20°C 1kHz (mΩ)	R _{th} ⁽²⁾ (K/W)	P ±0,5 (mm)	D ±1,0 (mm)	H ±2,0 (mm)	ORDER CODE * to be defined, see ordering code table (preferred)	
250/350 2F	60	16,7	16	999	5,2	12,6	20	50	100	FCC2FAQ606#D100#W1BE3	
	80	16,7	16	1332	4,3	11,2	20	50	100	FCC2FAQ806#D100#W1BE3	
	100	12,6	16	1260	4,8	10,0	20	50	125	FCC2FAQ107#D125#W1BE3	
	120	12,6	16	1512	5,4	9,0	20	55	125	FCC2FAQ127#C125#W1BE3	
	150	12,6	16	1890	6,8	7,7	20	60	125	FCC2FAQ157#F125#W1BE3	
	150	10,8	32	1620	3,4	7,1	30	76	125	FCC2FAQ157#H125#61AE3	
	175	12,6	16	2205	4,8	10,0	20	63,5	125	FCC2FAQ177#E125#W1BE3	
	200	11,7	34	2340	3,3	6,2	30	76	125	FCC2FAQ207#H125#61AE3	
	230	8,6	33	1978	3,8	5,7	30	76	150	FCC2FAQ237#H150#61AE3	
	250	8,6	37	2150	3,1	5,6	30	76	150	FCC2FAQ257#H150#61AE3	
	300	8,6	45	2580	2,0	4,7	30	86	150	FCC2FAQ307#L150#61AE3	
	330	10,4	45	3432	1,8	4,6	30	86	150	FCC2FAQ337#L150#61AE3	
	350	10,4	59	3622	1,6	4,2	30	76	200	FCC2FAQ357#H200#61AE3	
	400	10,4	61	4140	1,5	4,2	30	86	200	FCC2FAQ407#L200#61AE3	
	500	10,8	64	5400	1,5	3,7	30	86	200	FCC2FAQ507#L200#61AE3	
	600	8,0	64	4800	1,7	3,3	30	86	250	FCC2FAQ607#L250#61AE3	
	330/460 3D	50	16,7	16	832	5,0	11,6	20	50	100	FCC3DAQ506#D100#W1BE3
60		12,6	16	756	5,6	10,5	20	50	125	FCC3DAQ606#D125#W1BE3	
100		12,6	16	1260	7,9	7,8	20	60	125	FCC3DAQ107#F125#W1BE3	
100		13,1	23	1305	4,7	7,8	30	76	125	FCC3DAQ107#H125#61AE3	
120		7,2	24	864	4,2	7,3	20	63,5	125	FCC3DAQ127#E125#W1BE3	
150		9,0	23	1350	5,4	6,4	30	76	150	FCC3DAQ157#H150#61AE3	
175		8,6	25	1496	4,7	6,1	30	76	150	FCC3DAQ177#H150#61AE3	
200		13,1	50	2610	1,9	4,7	30	76	200	FCC3DAQ207#H200#61AE3	
200		13,1	45	2610	1,8	4,6	30	86	150	FCC3DAQ207#L150#61AE3	
250		8,6	54	2140	1,6	4,5	30	76	200	FCC3DAQ257#H200#61AE3	
300		13,1	59	3915	1,5	4,0	30	86	200	FCC3DAQ307#L200#61AE3	
350		13,1	60	4570	1,5	4,0	30	86	200	FCC3DAQ357#L200#61AE3	
400		8,1	59	3240	1,8	3,3	30	86	250	FCC3DAQ407#L250#61AE3	
450		8,1	60	3645	1,5	4,0	30	86	250	FCC3DAQ457#L250#61AE3	
450/630 4F		20	35,0	16	700	6,0	11,1	20	50	75	FCC4FAQ206#D075#W1BE3
		30	23,3	16	700	5,0	11,6	20	50	100	FCC4FAQ306#D100#W1BE3
		33	21,2	16	700	4,5	14,8	20	50	100	FCC4FAQ336#D100#W1BE3
	40	13,5	16	540	4,0	16,6	20	50	100	FCC4FAQ406#D100#W1BE3	
	50	10,8	16	540	7,9	7,8	20	60	125	FCC4FAQ506#F125#W1BE3	
	50	17,1	25	855	6,0	5,3	30	76	100	FCC4FAQ506#H100#61AE3	
	70	13,0	16	907	6,5	10,2	20	60	125	FCC4FAQ706#F125#W1BE3	
	80	11,3	16	904	6,0	11,1	20	60	125	FCC4FAQ806#F125#W1BE3	
	90	11,3	16	1020	5,0	11,6	20	63,5	125	FCC4FAQ906#E125#W1BE3	
	100	10,8	35	1080	4,7	5,0	30	76	150	FCC4FAQ107#H150#61AE3	
	150	13,1	40	1957	3,9	4,3	30	86	150	FCC4FAQ157#L150#61AE3	
	200	13,5	50	2700	2,5	4,3	30	86	200	FCC4FAQ207#L200#61AE3	
	250	8,1	50	2025	2,0	5,3	30	86	200	FCC4FAQ257#L200#61AE3	
	300	8,0	50	2400	1,8	5,9	30	86	250	FCC4FAQ307#L250#61AE3	
	480/675 4J	20	37,5	16	750	7,3	9,1	20	50	75	FCC4JAQ206#D075#W1BE3
		25	30,0	16	750	6,2	10,7	20	50	100	FCC4JAQ256#D100#W1BE3
		30	25,0	16	750	7,1	9,4	20	50	100	FCC4JAQ306#D100#W1BE3
40		21,3	16	850	8,0	8,3	20	60	100	FCC4JAQ406#F100#W1BE3	
50		17,0	16	850	6,5	10,2	20	55	125	FCC4JAQ506#C125#W1BE3	
50		19,0	29	950	3,2	7,7	30	76	100	FCC4JAQ506#H100#61AE3	
60		17,6	31	1050	2,8	7,2	30	76	125	FCC4JAQ606#H125#61AE3	
70		22,5	29	1575	3,8	6,6	30	76	125	FCC4JAQ706#H125#61AE3	
80		15,3	31	1224	3,5	6,2	30	76	150	FCC4JAQ806#H150#61AE3	
100		17,1	50	1710	1,5	4,8	30	76	200	FCC4JAQ107#H200#61AE3	
150		17,1	59	2565	1,2	4,2	30	76	200	FCC4JAQ157#H200#61AE3	
200		13,1	64	2610	1,2	3,5	30	76	250	FCC4JAQ207#H250#61AE3	
250		11,7	65	2925	1,3	3,1	30	86	250	FCC4JAQ257#L250#61AE3	
550/770 5F		20	30,0	16	600	6,9	9,6	20	50	100	FCC5FAQ206#D100#W1BE3
		30	25,0	16	750	6,6	10,1	20	50	125	FCC5FAQ306#D125#W1BE3
		40	18,8	16	750	6,0	11,1	20	60	125	FCC5FAQ406#F125#W1BE3
		50	17,0	16	850	5,5	12,1	20	63,5	125	FCC5FAQ506#E125#W1BE3

(1) Maximum permissible peak current, (2) Thermal resistance from hotspot to ambient (free convection)

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U_{max}/U_n $\leq 70^\circ\text{C}$	C_x	dV/dt	I_{max} 50°C 1kHz	$\hat{I}^{(1)}$	R_s 20°C 1kHz	$R_{th}^{(2)}$	P $\pm 0,5$	D $\pm 1,0$	H $\pm 2,0$	ORDER CODE *=" to be defined, see ordering code table (preferred)
(V _{ac})	(μF)	(V/ μs)	(A)	(A)	(m Ω)	(K/W)	(mm)	(mm)	(mm)	
550/770 5F	70	12,9	31	900	3,5	6,0	30	76	150	FCC5FAQ706#H150#61AE3
	80	22,5	52	1800	1,3	5,1	30	76	150	FCC5FAQ806#H150#61AE3
	100	28,2	56	2820	1,1	4,8	30	86	150	FCC5FAQ107#L150#61AE3
	125	22,6	50	2820	2,0	5,3	30	86	200	FCC5FAQ127#L200#61AE3
	150	21,4	53	3210	1,7	3,7	30	86	200	FCC5FAQ157#L200#61AE3
	200	16,1	58	3220	1,4	3,4	30	86	250	FCC5FAQ207#L250#61AE3
	250	14,0	63	3500	1,3	3,0	30	96	250	FCC5FAQ257#W250#61AE3
	300	11,7	65	3500	1,2	2,8	30	106	250	FCC5FAQ307#K250#61AE3
600/850 6A	10	35,0	16	350	9,5	7,0	20	50	75	FCC6AAQ106#D075#W1BE3
	20	25,0	16	500	11,1	6,0	20	50	125	FCC6AAQ206#D125#W1BE3
	25	20,0	16	500	10,5	6,3	20	50	125	FCC6AAQ256#D125#W1BE3
	30	20,0	16	600	9,5	7,0	20	60	125	FCC6AAQ306#F125#W1BE3
	35	20,0	16	700	9,0	7,4	20	60	125	FCC6AAQ356#F125#W1BE3
	40	17,5	16	700	8,5	7,8	20	63,5	125	FCC6AAQ406#E125#W1BE3
	45	15,6	16	700	8,0	8,3	20	65	125	FCC6AAQ456#G125#W1BE3
	50	17,0	41	850	2,0	5,4	30	76	150	FCC6AAQ506#H150#61AE3
660/930 6G	10	40,0	16	400	10,5	6,3	20	50	125	FCC6GAQ106#D125#W1BE3
	12	35,0	16	420	10,0	6,6	20	50	125	FCC6GAQ126#D125#W1BE3
	15	28,0	16	420	9,5	7,0	20	50	125	FCC6GAQ156#D125#W1BE3
	18	25,0	16	450	9,0	7,4	20	50	125	FCC6GAQ186#D125#W1BE3
	20	27,5	16	550	8,5	7,8	20	55	125	FCC6GAQ206#C125#W1BE3
	25	22,0	16	550	8,0	8,3	20	60	125	FCC6GAQ256#F125#W1BE3
	30	25,0	16	750	7,5	8,9	20	65	125	FCC6GAQ306#G125#W1BE3
	35	21,4	30	750	5,6	3,0	30	76	150	FCC6GAQ356#H150#61AE3
	40	22,5	30	900	5,2	3,2	30	76	150	FCC6GAQ406#H150#61AE3
	45	20,0	40	900	5,0	2,2	30	86	150	FCC6GAQ456#L150#61AE3
	50	20,0	40	1000	4,7	2,5	30	86	150	FCC6GAQ506#L150#61AE3
	690/980 6K	10	75,0	16	750	9,5	7,0	20	50	125
15		50,0	16	750	9,0	7,4	20	50	125	FCC6KAQ156#D125#W1BE3
20		45,0	16	900	8,5	7,8	20	55	125	FCC6KAQ206#C125#W1BE3
30		30,0	16	900	8,0	8,3	20	63,5	125	FCC6KAQ306#E125#W1BE3
40		28,8	25	1150	4,8	5,0	30	76	150	FCC6KAQ406#H150#61AE3
50		23,0	30	1150	4,3	4,0	30	86	150	FCC6KAQ506#L150#61AE3
70		18,0	30	1260	3,7	4,5	30	76	250	FCC6KAQ706#H250#61AE3
85		18,0	50	1530	2,0	3,0	30	86	250	FCC6KAQ856#L250#61AE3
100		18,0	53	1800	1,8	3,4	30	86	250	FCC6KAQ107#L250#61AE3
125		12,5	50	1560	1,8	3,3	30	106	250	FCC6KAQ127#K250#61AE3
150		12,5	59	1875	1,4	3,0	30	106	250	FCC6KAQ157#K250#61AE3
170		12,5	59	2125	1,2	3,5	30	106	250	FCC6KAQ177#K250#61AE3

(1) Maximum permissible peak current, (2) Thermal resistance from hotspot to ambient (free convection)

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