



C14
CBB81 series

高压金属化聚丙烯膜/箔式电容器

High-voltage metallized polypropylene film/foil capacitor

■ 外形图 Outline Drawing

	Forming Lead Shapes			
	I	II	III	IV
	P > F		P < F	
	0mm < P-F < 3mm	3mm < P-F < 8mm	3mm < F-P < 5mm	0mm < F-P < 3mm
	F ± 0.8mm; A < 5.0mm; B=4.5 ± 0.5mm			

■ 特点

- 金属化聚丙烯膜箔式，卷绕结构
- 损耗小，内部温升小
- 负电容量温度系数
- 阻燃环氧粉末包封（UL94/V-0）

■ 主要用途

- 大屏幕显示器行逆程电路
- 适用于高脉冲、大电流电路
- 适用于电子镇流器

■ 技术要求 Specifications

■ Features

- Metallized polypropylene film/foil, wound construction
- Low loss and small inherent temperature rise
- Negative temperature coefficient of capacitance
- Flame retardant epoxy resin powder coating（UL94/V-0）

■ Typical Applications

- Horizontal resonance circuits of large screen monitor
- Suitable for high pulse and high current loading circuit
- Suitable for electronic ballast

引用标准 Reference Standard	GB/T 10190(IEC 60384-16)	
气候类别 Climatic Category	40/105/21	
额定温度 Rated Temperature	85℃	
工作温度 Operating Temperature Range	-40℃ ~105℃ (+85℃ to +105℃: decreasing factor 1.25% per °C for U _R)	
额定电压 Rated Voltage	630V, 800V, 1 000V/1 250V, 1 600V, 2 000V, 2 500V	
电容量范围 Capacitance Range	0.0010μF ~ 0.036μF	
电容量偏差 Capacitance Tolerance	± 3%(H), ± 5%(J), ± 10%(K)	
耐电压 Voltage Proof	1.75U _R (5s)	
损耗角正切 Dissipation Factor	≤ 10 × 10 ⁻⁴ (1kHz, 20℃) ≤ 20 × 10 ⁻⁴ (10kHz, 20℃)	
绝缘电阻 Insulation Resistance	≥ 100 000MΩ (20℃ ,100V, 1min)	
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt): 若实际工作电压 U 比额定电压 U _R 低，电容器可工作在更高的 dV/dt 场合，这样 dV/dt 允许值应为右表值乘以 U _R /U。 If the working voltage(U) is lower than the rated voltage(U _R), the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U _R /U.	Pattern II	
	U _R (V)	dV/dt (V/μs)
		P=15.0
	630/800	11 000
	1 000/1 250	28 000
	1 600	32 000
2 000	35 000	
2 500	40 000	

产品编码说明 Part number system

■ 18位产品代码如下：

The 18 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
C	1	4															

第1~3位	型号代码 C14= CBB81	Digit 1 to 3	Series code C14= CBB81
第4~5位	直流额定电压 2J=630V 2K=800V 3A=1 000V 3B=1 250V 3C=1 600V 3D=2 000V 3E=2 500V	Digit 4 to 5	Rated voltage 2J=630V 2K=800V 3A=1 000V 3B=1 250V 3C=1 600V 3D=2 000V 3E=2 500V
第6~8位	标称容量 举例：103=10 × 10 ³ pF=0.01μF	Digit 6 to 8	Rated capacitance value For example: 103=10 × 10 ³ pF=0.01μF
第9位	容量偏差 H=3%,J= ± 5%, K= ± 10%	Digit 9	Capacitance tolerance H=3%,J= ± 5%, K= ± 10%
第10位	引线脚距P 6=15.0mm 8=19.0mm 9=22.0mm A=25.0mm B=27.0mm	Digit 10	Pitch 6=15.0mm 8=19.0mm 9=22.0mm A=25.0mm B=27.0mm
第11位	内部特征码 S=CBB81 II 型	Digit 11	Internal use S=CBB81 Pattern II
第12~15位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code
第16~18位	内部特征码	Digit 16 to 18	Internal use

■ Table 1 引线加工和包装代码 lead form and packaging code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	6	F=15.0mm	1	表示弯脚 kinked	E	P3=25.4mm;H=20.0mm (For pitch=15.0mm) (Detail parameter refer to pag 18)
F	引线成型 lead kinked	6 7 8 9	F=15.0mm F=17.5mm F=20.0mm F=22.5mm	0	B=4.5mm (the length of B)	0	B 的长度偏差 ±0.5mm B Length tolerance ±0.5mm
Y	直脚 straight lead “Y” in the figure above	代码 Code 45	说明 explanation 引线长度 4.5mm lead length 4.5mm			0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm

第 12-15 位代码为 “C000” 表示标准的引线长度 (20mm ~ 30mm)
Digit 12-15 code “C000” means standard lead length (20mm ~ 30mm)



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CBB81 series

■ 外形尺寸 **Dimensions (mm)**
Pattern II (Reduced sizes)

630/800Vdc (400Vac) #						
C _N (μ F)	W max	H max	T max	P	d	Part number
0.0010	18.0	10.1	5.7	15.0	0.8	C142K102-6S****++
0.0012	18.0	10.5	6.0	15.0	0.8	C142K122-6S****++
0.0015	18.0	11.0	6.5	15.0	0.8	C142K152-6S****++
0.0016	18.0	11.6	6.4	15.0	0.8	C142K162-6S****++
0.0018	18.0	11.9	6.7	15.0	0.8	C142K182-6S****++
0.0020	18.0	12.2	7.0	15.0	0.8	C142K202-6S****++
0.0022	18.0	12.5	7.3	15.0	0.8	C142K222-6S****++
0.0024	18.0	12.7	7.5	15.0	0.8	C142K242-6S****++
0.0027	18.0	13.1	7.9	15.0	0.8	C142K272-6S****++
0.0030	18.0	13.5	8.3	15.0	0.8	C142K302-6S****++
0.0033	18.0	13.8	8.6	15.0	0.8	C142K332-6S****++
0.0036	18.0	11.7	6.5	15.0	0.8	C142K362-6S****++
0.0039	18.0	12.0	6.7	15.0	0.8	C142K392-6S****++
0.0043	18.0	12.2	7.0	15.0	0.8	C142K432-6S****++
0.0047	18.0	12.5	7.3	15.0	0.8	C142K472-6S****++
0.0049	18.0	11.9	6.7	15.0	0.8	C142K492-6S****++
0.0051	18.0	12.0	6.8	15.0	0.8	C142K512-6S****++
0.0053	18.0	12.1	6.9	15.0	0.8	C142K532-6S****++
0.0056	18.0	11.5	6.2	15.0	0.8	C142K562-6S****++
0.0060	18.0	11.6	6.4	15.0	0.8	C142K602-6S****++
0.0062	18.0	11.7	6.5	15.0	0.8	C142K622-6S****++
0.0065	18.0	11.8	6.6	15.0	0.8	C142K652-6S****++
0.0068	18.0	12.0	6.8	15.0	0.8	C142K682-6S****++
0.0072	18.0	12.1	6.9	15.0	0.8	C142K722-6S****++
0.0075	18.0	12.2	7.0	15.0	0.8	C142K752-6S****++
0.0078	18.0	12.4	7.1	15.0	0.8	C142K782-6S****++
0.0082	18.0	12.5	7.3	15.0	0.8	C142K822-6S****++
0.0084	18.0	12.6	7.4	15.0	0.8	C142K842-6S****++
0.0091	18.0	12.8	7.6	15.0	0.8	C142K912-6S****++
0.010	18.0	13.2	8.0	15.0	0.8	C142K103-6S****++
0.012	18.0	11.4	6.2	15.0	0.8	C142K123-6S****++
0.015	18.0	12.0	6.8	15.0	0.8	C142K153-6S****++
0.018	18.0	12.6	7.4	15.0	0.8	C142K183-6S****++
0.022	18.0	13.8	8.1	15.0	0.8	C142K223-6S****++
0.024	18.0	14.1	8.4	15.0	0.8	C142K243-6S****++
0.027	18.0	14.6	8.9	15.0	0.8	C142K273-6S****++
0.033	18.0	16.4	9.1	15.0	0.8	C142K333-6S****++
0.036	18.0	16.8	9.5	15.0	0.8	C142K363-6S****++

1 000/1 250Vdc (450Vac) #						
C _N (μ F)	W max	H max	T max	P	d	Part number
0.0010	18.0	10.1	5.7	15.0	0.8	C143A102-6S****++
0.0012	18.0	10.5	6.0	15.0	0.8	C143A122-6S****++
0.0015	18.0	11.0	6.5	15.0	0.8	C143A152-6S****++
0.0016	18.0	11.6	6.4	15.0	0.8	C143A162-6S****++
0.0018	18.0	11.9	6.7	15.0	0.8	C143A182-6S****++
0.0020	18.0	12.2	7.0	15.0	0.8	C143A202-6S****++
0.0022	18.0	12.5	7.3	15.0	0.8	C143A222-6S****++
0.0024	18.0	12.7	7.5	15.0	0.8	C143A242-6S****++
0.0027	18.0	13.6	7.9	15.0	0.8	C143A272-6S****++
0.0030	18.0	14.0	8.3	15.0	0.8	C143A302-6S****++
0.0033	18.0	14.3	8.6	15.0	0.8	C143A332-6S****++
0.0036	18.0	11.7	6.5	15.0	0.8	C143A362-6S****++
0.0039	18.0	12.0	6.7	15.0	0.8	C143A392-6S****++
0.0043	18.0	12.2	7.0	15.0	0.8	C143A432-6S****++
0.0047	18.0	12.5	7.3	15.0	0.8	C143A472-6S****++
0.0049	18.0	12.6	7.4	15.0	0.8	C143A492-6S****++
0.0051	18.0	12.8	7.5	15.0	0.8	C143A512-6S****++
0.0053	18.0	12.9	7.7	15.0	0.8	C143A532-6S****++
0.0056	18.0	12.1	6.9	15.0	0.8	C143A562-6S****++
0.0060	18.0	12.3	7.1	15.0	0.8	C143A602-6S****++
0.0062	18.0	12.4	7.2	15.0	0.8	C143A622-6S****++
0.0065	18.0	12.6	7.4	15.0	0.8	C143A652-6S****++
0.0068	18.0	12.7	7.5	15.0	0.8	C143A682-6S****++
0.0072	18.0	12.9	7.7	15.0	0.8	C143A722-6S****++
0.0075	18.0	13.5	7.8	15.0	0.8	C143A752-6S****++
0.0078	18.0	13.7	8.0	15.0	0.8	C143A782-6S****++
0.0082	18.0	13.9	8.1	15.0	0.8	C143A822-6S****++
0.0084	18.0	13.9	8.2	15.0	0.8	C143A842-6S****++
0.0091	18.0	14.2	9.0	15.0	0.8	C143A912-6S****++
0.010	18.0	14.6	9.4	15.0	0.8	C143A103-6S****++
0.012	18.0	15.4	10.2	15.0	0.8	C143A123-6S****++
0.015	18.0	14.9	9.7	15.0	0.8	C143A153-6S****++
0.018	18.0	15.7	10.5	15.0	0.8	C143A183-6S****++
0.022	18.0	16.7	11.5	15.0	0.8	C143A223-6S****++

- 备注: 1. “-”表示容量偏差。 “-”=capacitance tolerance code, M= $\pm 20\%$, K= $\pm 10\%$, J= $\pm 5\%$
 2. “****”表示引线加工和包装代码(见table 1)。“****”=lead form and packing code(refer to table 1)
 3. “#”当额定电压为630Vdc时,第4~5位是2J。“#”when the rated voltage is 630Vdc,the digit 4~5 is 2J.
 “#”当额定电压为1 250Vdc时,第4~5位是3B。“#”when the rated voltage is 1 250Vdc,the digit 4~5 is 3B.

■ 外形尺寸 Dimensions (mm)
Pattern II (Reduced sizes)

1 600Vdc (450Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	18.0	10.4	6.0	15.0	0.8	C143C102-6S****+++
0.0012	18.0	10.8	6.4	15.0	0.8	C143C122-6S****+++
0.0015	18.0	11.3	6.9	15.0	0.8	C143C152-6S****+++
0.0016	18.0	12.0	6.8	15.0	0.8	C143C162-6S****+++
0.0018	18.0	12.3	7.1	15.0	0.8	C143C182-6S****+++
0.0020	18.0	12.7	7.4	15.0	0.8	C143C202-6S****+++
0.0022	18.0	12.9	7.7	15.0	0.8	C143C222-6S****+++
0.0024	18.0	13.7	8.0	15.0	0.8	C143C242-6S****+++
0.0027	18.0	11.4	6.2	15.0	0.8	C143C272-6S****+++
0.0030	18.0	11.7	6.5	15.0	0.8	C143C302-6S****+++
0.0033	18.0	11.9	6.7	15.0	0.8	C143C332-6S****+++
0.0036	18.0	11.4	6.2	15.0	0.8	C143C362-6S****+++
0.0039	18.0	11.6	6.4	15.0	0.8	C143C392-6S****+++
0.0043	18.0	11.8	6.6	15.0	0.8	C143C432-6S****+++
0.0047	18.0	12.1	6.9	15.0	0.8	C143C472-6S****+++
0.0049	18.0	12.2	7.0	15.0	0.8	C143C492-6S****+++
0.0051	18.0	12.3	7.1	15.0	0.8	C143C512-6S****+++
0.0053	18.0	12.4	7.2	15.0	0.8	C143C532-6S****+++
0.0056	18.0	12.6	7.4	15.0	0.8	C143C562-6S****+++
0.0060	18.0	12.8	7.6	15.0	0.8	C143C602-6S****+++
0.0062	18.0	12.9	7.7	15.0	0.8	C143C622-6S****+++
0.0065	18.0	13.6	7.9	15.0	0.8	C143C652-6S****+++
0.0068	18.0	13.7	8.0	15.0	0.8	C143C682-6S****+++
0.0072	18.0	13.9	8.2	15.0	0.8	C143C722-6S****+++
0.0075	18.0	14.1	8.4	15.0	0.8	C143C752-6S****+++
0.0078	18.0	14.2	9.0	15.0	0.8	C143C782-6S****+++
0.0082	18.0	14.4	9.2	15.0	0.8	C143C822-6S****+++
0.0084	18.0	14.5	9.3	15.0	0.8	C143C842-6S****+++
0.0091	18.0	14.9	9.6	15.0	0.8	C143C912-6S****+++
0.010	18.0	15.3	10.0	15.0	0.8	C143C103-6S****+++
0.012	18.0	16.1	10.9	15.0	0.8	C143C123-6S****+++

2 000Vdc (500Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	18.0	10.4	6.0	15.0	0.8	C143D102-6S****+++
0.0012	18.0	10.8	6.4	15.0	0.8	C143D122-6S****+++
0.0015	18.0	11.3	6.9	15.0	0.8	C143D152-6S****+++
0.0016	18.0	12.0	6.8	15.0	0.8	C143D162-6S****+++
0.0018	18.0	12.3	7.1	15.0	0.8	C143D182-6S****+++
0.0020	18.0	12.7	7.4	15.0	0.8	C143D202-6S****+++
0.0022	18.0	12.9	7.7	15.0	0.8	C143D222-6S****+++
0.0024	18.0	11.8	6.6	15.0	0.8	C143D242-6S****+++
0.0027	18.0	12.1	6.9	15.0	0.8	C143D272-6S****+++
0.0030	18.0	12.4	7.2	15.0	0.8	C143D302-6S****+++
0.0033	18.0	12.7	7.5	15.0	0.8	C143D332-6S****+++
0.0036	18.0	12.2	7.0	15.0	0.8	C143D362-6S****+++
0.0039	18.0	12.4	7.2	15.0	0.8	C143D392-6S****+++
0.0043	18.0	12.7	7.5	15.0	0.8	C143D432-6S****+++
0.0047	18.0	13.5	7.8	15.0	0.8	C143D472-6S****+++
0.0049	18.0	13.7	8.0	15.0	0.8	C143D492-6S****+++
0.0051	18.0	13.8	8.1	15.0	0.8	C143D512-6S****+++
0.0053	18.0	13.9	8.2	15.0	0.8	C143D532-6S****+++
0.0056	18.0	14.2	8.4	15.0	0.8	C143D562-6S****+++
0.0060	18.0	14.4	9.2	15.0	0.8	C143D602-6S****+++
0.0062	18.0	14.5	9.3	15.0	0.8	C143D622-6S****+++
0.0065	18.0	14.7	9.5	15.0	0.8	C143D652-6S****+++
0.0068	18.0	14.9	9.7	15.0	0.8	C143D682-6S****+++
0.0072	18.0	15.2	9.9	15.0	0.8	C143D722-6S****+++
0.0075	18.0	15.3	10.1	15.0	0.8	C143D752-6S****+++
0.0078	18.0	15.5	10.3	15.0	0.8	C143D782-6S****+++
0.0082	18.0	15.7	10.5	15.0	0.8	C143D822-6S****+++
0.0084	18.0	15.8	10.6	15.0	0.8	C143D842-6S****+++
0.0091	18.0	16.2	11.0	15.0	0.8	C143D912-6S****+++
0.010	18.0	16.7	11.5	15.0	0.8	C143D103-6S****+++

2 500Vdc (500Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0010	18.0	10.4	6.0	15.0	0.8	C143E102-6S****+++
0.0012	18.0	10.8	6.4	15.0	0.8	C143E122-6S****+++
0.0015	18.0	11.3	6.9	15.0	0.8	C143E152-6S****+++
0.0016	18.0	12.0	6.8	15.0	0.8	C143E162-6S****+++
0.0018	18.0	12.3	7.1	15.0	0.8	C143E182-6S****+++
0.0020	18.0	12.7	7.4	15.0	0.8	C143E202-6S****+++
0.0022	18.0	12.9	7.7	15.0	0.8	C143E222-6S****+++
0.0024	18.0	11.8	6.6	15.0	0.8	C143E242-6S****+++
0.0027	18.0	12.1	6.9	15.0	0.8	C143E272-6S****+++
0.0030	18.0	12.4	7.2	15.0	0.8	C143E302-6S****+++
0.0033	18.0	12.7	7.5	15.0	0.8	C143E332-6S****+++
0.0036	18.0	13.5	7.8	15.0	0.8	C143E362-6S****+++
0.0039	18.0	13.8	8.1	15.0	0.8	C143E392-6S****+++

2 500Vdc (500Vac)						
C _N (μF)	W max	H max	T max	P	d	Part number
0.0043	18.0	14.1	8.4	15.0	0.8	C143E432-6S****+++
0.0047	18.0	14.5	9.3	15.0	0.8	C143E472-6S****+++
0.0049	18.0	14.6	9.4	15.0	0.8	C143E492-6S****+++
0.0051	18.0	14.8	9.6	15.0	0.8	C143E512-6S****+++
0.0053	18.0	15.0	9.7	15.0	0.8	C143E532-6S****+++
0.0056	18.0	15.2	10.0	15.0	0.8	C143E562-6S****+++
0.0060	18.0	15.5	10.3	15.0	0.8	C143E602-6S****+++
0.0062	18.0	15.6	10.4	15.0	0.8	C143E622-6S****+++
0.0065	18.0	15.9	10.6	15.0	0.8	C143E652-6S****+++
0.0068	18.0	16.1	10.9	15.0	0.8	C143E682-6S****+++
0.0072	18.0	16.3	11.1	15.0	0.8	C143E722-6S****+++
0.0075	18.0	16.5	11.3	15.0	0.8	C143E752-6S****+++
0.0078	18.0	16.7	11.5	15.0	0.8	C143E782-6S****+++

备注: 1. “-”表示容量偏差。 “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
2. “****”表示引线加工和包装代码(见table 1)。“****”=lead form and packing code (refer to table 1)