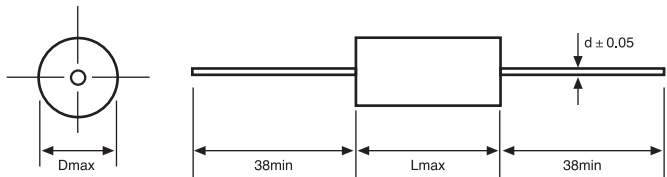


轴向金属化聚丙烯膜电容器
Metallized polypropylene film capacitor(Axial-type)

■ 外形图 Outline Drawing



■ 特点

- 金属化聚丙烯，无感卷绕结构，轴向
- 自愈性能优异
- 外包聚酯胶带纸，两端灌注阻燃性环氧树脂

■ 主要用途

- 温度补偿电路
- 定时、振荡电路
- 功率因素校正，开关电源耦合用

■ Features

- Metallized Polypropylene film , non-inductive type , axial
- Excellent self-healing property
- Wrapped with polyester adhesive tape and ends filled with Flame retardant epoxy resin

■ Typical Application

- Temperature compensation circuits
- Timing,oscillator circuits
- Power factor correction and coupling capacitor in SMPS applications

■ 技术要求 Specifications

引用标准 Reference Standard	GB 10190(IEC 60384-16)						
气候类别 Climatic Category	40/085/21						
额定温度 Rated Temperature	85℃						
额定电压 Rated Voltage	100/160V、250V、400V、630V、1 000V、1 250V						
电容量范围 Capacitance Range	0.0010μF ~ 15μF						
电容量偏差 Capacitance Tolerance	± 5%(J), ± 10%(K), ± 20%(M)						
耐电压 Voltage Proof	1.6U _R (5s)						
损耗角正切 Dissipation Factor	≤ 10 × 10 ⁻⁴ (1kHz, 20℃)						
绝缘电阻 Insulation Resistance	≥ 100 000MΩ, C _N ≤ 0.33μF ≥ 30 000s, C _N > 0.33μF (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.	U _R (V)	dV/dt (V/μs)					
		L=12.0	L=14.5	L=20.0	L=27.5	L=33.0	L=41.5
		L=56.5					
	100/160	150	110	80	60	50	35
	250	300	220	150	110	90	60
	400	460	330	250	180	120	80
	630	600	440	300	220	150	100
	1 000	800	550	400	300	200	150
	1 250	1 000	750	580	400	300	200

The 18 digits part number is formed as follow:

第1~3位	型号代码	Digit 1 to 3	Series code
	C30= CBB20		C30= CBB20
第4~5位	直流额定电压	Digit 4 to 5	DC Rated voltage
	2A=100V 2C=160V 2E=250V 2G=400V		2A=100V 2C=160V 2E=250V 2G=400V
	2J=630V 3A=1 000V 3B=1 250V		2J=630V 3A=1 000V 3B=1 250V
第6~8位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10 × 10 ³ pF=0.01μF		For example: 103=10 × 10 ³ pF=0.01μF
第9位	容量偏差	Digit 9	Capacitance tolerance
	J= ± 5%, K= ± 10%, M= ± 20%		J= ± 5%, K= ± 10%, M= ± 20%
第10位	轴向0代表轴向	Digit 10	Axial 0=axial
第11位	内部特征码	Digit 11	Internal use
第12~15位	引线长度	Digit 12 to 15	Lead length
	C000表示标准的引线长度(38mm min)		C000 means standard lead length(38mm min)
第16~18位	内部特征码	Digit 16 to 18	Internal use



C30

CBB20 series

■ 外形尺寸表 Dimensions (mm)

100V(60Vac)/160Vdc(90Vac)*					250Vdc(160Vac)					400Vdc(200Vac)				
C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number
0.022	5.0	12.0	0.6	C302A223-00C000+++	0.010	5.0	12.0	0.6	C302E103-00C000+++	0.0068	5.0	12.0	0.6	C302G682-00C000+++
0.027	5.0	12.0	0.6	C302A273-00C000+++	0.012	5.0	12.0	0.6	C302E123-00C000+++	0.0082	5.0	12.0	0.6	C302G822-00C000+++
0.033	5.0	12.0	0.6	C302A333-00C000+++	0.015	5.0	12.0	0.6	C302E153-00C000+++	0.010	5.0	12.0	0.6	C302G103-00C000+++
0.039	5.0	12.0	0.6	C302A393-00C000+++	0.018	5.0	12.0	0.6	C302E183-00C000+++	0.012	5.0	12.0	0.6	C302G123-00C000+++
0.047	5.0	12.0	0.6	C302A473-00C000+++	0.022	5.0	12.0	0.6	C302E223-00C000+++	0.015	5.0	12.0	0.6	C302G153-00C000+++
0.056	5.0	12.0	0.6	C302A563-00C000+++	0.027	5.0	12.0	0.6	C302E273-00C000+++	0.018	5.5	12.0	0.6	C302G183-00C000+++
0.068	5.5	12.0	0.6	C302A683-00C000+++	0.033	5.5	12.0	0.6	C302E333-00C000+++	0.022	5.5	12.0	0.6	C302G223-00C000+++
0.082	5.0	14.5	0.6	C302A823-00C000+++	0.039	5.0	14.5	0.6	C302E393-00C000+++	0.027	5.0	14.5	0.6	C302G273-00C000+++
0.10	5.5	14.5	0.6	C302A104-00C000+++	0.047	5.5	14.5	0.6	C302E473-00C000+++	0.033	5.5	14.5	0.6	C302G333-00C000+++
0.12	6.0	14.5	0.6	C302A124-00C000+++	0.056	5.5	14.5	0.6	C302E563-00C000+++	0.039	6.0	14.5	0.6	C302G393-00C000+++
0.15	6.5	14.5	0.6	C302A154-00C000+++	0.068	6.0	14.5	0.6	C302E683-00C000+++	0.047	6.5	14.5	0.6	C302G473-00C000+++
0.18	7.0	14.5	0.8	C302A184-00C000+++	0.082	6.5	14.5	0.6	C302E823-00C000+++	0.056	6.5	14.5	0.6	C302G563-00C000+++
0.22	7.5	14.5	0.8	C302A224-00C000+++	0.10	7.0	14.5	0.8	C302E104-00C000+++	0.068	7.0	14.5	0.8	C302G683-00C000+++
0.27	8.5	14.5	0.8	C302A274-00C000+++	0.12	7.5	14.5	0.8	C302E124-00C000+++	0.082	7.5	14.5	0.8	C302G823-00C000+++
0.33	7.0	20.0	0.8	C302A334-00C000+++	0.15	8.0	14.5	0.8	C302E154-00C000+++	0.10	7.0	20.0	0.8	C302G104-00C000+++
0.39	7.5	20.0	0.8	C302A394-00C000+++	0.18	8.5	14.5	0.8	C302E184-00C000+++	0.12	7.5	20.0	0.8	C302G124-00C000+++
0.47	8.0	20.0	0.8	C302A474-00C000+++	0.22	7.5	20.0	0.8	C302E224-00C000+++	0.15	8.0	20.0	0.8	C302G154-00C000+++
0.56	9.0	20.0	0.8	C302A564-00C000+++	0.27	8.0	20.0	0.8	C302E274-00C000+++	0.18	8.5	20.0	0.8	C302G184-00C000+++
0.68	8.0	27.5	0.8	C302A684-00C000+++	0.33	9.0	20.0	0.8	C302E334-00C000+++	0.22	9.0	20.0	0.8	C302G224-00C000+++
0.82	8.5	27.5	0.8	C302A824-00C000+++	0.39	9.5	20.0	0.8	C302E394-00C000+++	0.27	10.0	20.0	0.8	C302G274-00C000+++
1.0	9.5	27.5	0.8	C302A105-00C000+++	0.47	8.5	27.5	0.8	C302E474-00C000+++	0.33	9.0	27.5	0.8	C302G334-00C000+++
1.2	10.0	27.5	0.8	C302A125-00C000+++	0.56	9.0	27.5	0.8	C302E564-00C000+++	0.39	9.5	27.5	0.8	C302G394-00C000+++
1.5	11.5	27.5	0.8	C302A155-00C000+++	0.68	10.0	27.5	0.8	C302E684-00C000+++	0.47	10.0	27.5	0.8	C302G474-00C000+++
1.8	12.0	27.5	0.8	C302A185-00C000+++	0.82	10.5	27.5	0.8	C302E824-00C000+++	0.56	10.5	27.5	0.8	C302G564-00C000+++
2.2	12.0	33.0	0.8	C302A225-00C000+++	1.0	12.0	27.5	0.8	C302E105-00C000+++	0.68	12.0	27.5	0.8	C302G684-00C000+++
2.7	13.0	33.0	0.8	C302A275-00C000+++	1.2	12.5	27.5	0.8	C302E125-00C000+++	0.82	13.0	27.5	0.8	C302G824-00C000+++
3.3	14.0	33.0	0.8	C302A335-00C000+++	1.5	12.5	33.0	0.8	C302E155-00C000+++	1.0	12.5	33.0	0.8	C302G105-00C000+++
3.9	15.0	33.0	0.8	C302A395-00C000+++	1.8	13.5	33.0	0.8	C302E185-00C000+++	1.2	13.5	33.0	0.8	C302G125-00C000+++
4.7	16.5	33.0	1.0	C302A475-00C000+++	2.2	14.5	33.0	0.8	C302E225-00C000+++	1.5	15.0	33.0	0.8	C302G155-00C000+++
5.6	17.5	33.0	1.0	C302A565-00C000+++	2.7	16.0	33.0	1.0	C302E275-00C000+++	1.8	16.0	33.0	1.0	C302G185-00C000+++
6.8	17.5	41.5	1.0	C302A685-00C000+++	3.3	17.5	33.0	1.0	C302E335-00C000+++	2.2	17.5	33.0	1.0	C302G225-00C000+++
8.2	19.0	41.5	1.0	C302A825-00C000+++	3.9	18.5	33.0	1.0	C302E395-00C000+++	2.7	19.0	33.0	1.0	C302G275-00C000+++
10.0	20.5	41.5	1.0	C302A106-00C000+++	4.7	18.0	41.5	1.0	C302E475-00C000+++	3.3	18.5	41.5	1.0	C302G335-00C000+++
12.0	19.0	56.5	1.0	C302A126-00C000+++	5.6	19.5	41.5	1.0	C302E565-00C000+++	3.9	20.0	41.5	1.0	C302G395-00C000+++
15.0	21.0	56.5	1.0	C302A156-00C000+++	6.8	21.5	41.5	1.0	C302E685-00C000+++	4.7	21.5	41.5	1.0	C302G475-00C000+++
					8.2	23.0	41.5	1.0	C302E825-00C000+++	5.6	23.5	41.5	1.0	C302G565-00C000+++
					10.0	21.5	56.5	1.0	C302E106-00C000+++	6.8	21.5	56.5	1.0	C302G685-00C000+++
					12.0	23.5	56.5	1.0	C302E126-00C000+++	8.2	23.5	56.5	1.0	C302G825-00C000+++
					15.0	25.5	56.5	1.0	C302E156-00C000+++	10.0	25.5	56.5	1.0	C302G106-00C000+++

备注：1. “-”表示容量偏差。 “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
2. “#”当额定电压为160Vdc时，第4~5位是2C。 “#” when the rated voltage is 160Vdc,the digit 4~5 is 2C.

■ 外形尺寸表 Dimensions (mm)

630Vdc(220Vac) [@]					1 000Vdc(350Vac)					1 250Vdc(400Vac)				
C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number	C _N (μF)	D max	L max	d	Part number
0.0010	5.0	12.0	0.6	C302J102-00C000+++	0.0010	5.0	12.0	0.6	C303A102-00C000+++	0.0010	5.0	12.0	0.6	C303B102-00C000+++
0.0012	5.0	12.0	0.6	C302J122-00C000+++	0.0012	5.0	12.0	0.6	C303A122-00C000+++	0.0012	5.5	12.0	0.6	C303B122-00C000+++
0.0015	5.0	12.0	0.6	C302J152-00C000+++	0.0015	5.0	12.0	0.6	C303A152-00C000+++	0.0015	5.5	12.0	0.6	C303B152-00C000+++
0.0018	5.0	12.0	0.6	C302J182-00C000+++	0.0018	5.5	12.0	0.6	C303A182-00C000+++	0.0018	6.0	12.0	0.6	C303B182-00C000+++
0.0022	5.0	12.0	0.6	C302J222-00C000+++	0.0022	6.0	12.0	0.6	C303A222-00C000+++	0.0022	6.5	12.0	0.6	C303B222-00C000+++
0.0027	5.0	12.0	0.6	C302J272-00C000+++	0.0027	6.0	12.0	0.6	C303A272-00C000+++	0.0027	5.5	14.5	0.6	C303B272-00C000+++
0.0033	5.0	12.0	0.6	C302J332-00C000+++	0.0033	6.5	12.0	0.6	C303A332-00C000+++	0.0033	6.0	14.5	0.6	C303B332-00C000+++
0.0039	5.0	12.0	0.6	C302J392-00C000+++	0.0039	5.5	14.5	0.6	C303A392-00C000+++	0.0039	6.0	14.5	0.6	C303B392-00C000+++
0.0047	5.0	12.0	0.6	C302J472-00C000+++	0.0047	5.5	14.5	0.6	C303A472-00C000+++	0.0047	6.5	14.5	0.6	C303B472-00C000+++
0.0056	5.0	12.0	0.6	C302J562-00C000+++	0.0056	6.5	14.5	0.6	C303A562-00C000+++	0.0056	7.0	14.5	0.8	C303B562-00C000+++
0.0068	5.5	12.0	0.6	C302J682-00C000+++	0.0068	6.5	14.5	0.6	C303A682-00C000+++	0.0068	7.5	14.5	0.8	C303B682-00C000+++
0.0082	5.0	14.5	0.6	C302J822-00C000+++	0.0082	7.0	14.5	0.8	C303A822-00C000+++	0.0082	8.0	14.5	0.8	C303B822-00C000+++
0.010	5.5	14.5	0.6	C302J103-00C000+++	0.010	7.5	14.5	0.8	C303A103-00C000+++	0.010	8.5	14.5	0.8	C303B103-00C000+++
0.012	5.5	14.5	0.6	C302J123-00C000+++	0.012	8.0	14.5	0.8	C303A123-00C000+++	0.012	7.0	20.0	0.8	C303B123-00C000+++
0.015	6.0	14.5	0.6	C302J153-00C000+++	0.015	8.5	14.5	0.8	C303A153-00C000+++	0.015	7.5	20.0	0.8	C303B153-00C000+++
0.018	6.5	14.5	0.6	C302J183-00C000+++	0.018	7.5	20.0	0.8	C303A183-00C000+++	0.018	8.0	20.0	0.8	C303B183-00C000+++
0.022	7.0	14.5	0.8	C302J223-00C000+++	0.022	8.0	20.0	0.8	C303A223-00C000+++	0.022	8.5	20.0	0.8	C303B223-00C000+++
0.027	7.5	14.5	0.8	C302J273-00C000+++	0.027	8.5	20.0	0.8	C303A273-00C000+++	0.027	9.5	20.0	0.8	C303B273-00C000+++
0.033	7.0	20.0	0.8	C302J333-00C000+++	0.033	9.0	20.0	0.8	C303A333-00C000+++	0.033	10.5	20.0	0.8	C303B333-00C000+++
0.039	7.5	20.0	0.8	C302J393-00C000+++	0.039	10.0	20.0	0.8	C303A393-00C000+++	0.039	9.0	27.5	0.8	C303B393-00C000+++
0.047	8.0	20.0	0.8	C302J473-00C000+++	0.047	10.5	20.0	0.8	C303A473-00C000+++	0.047	9.5	27.5	0.8	C303B473-00C000+++
0.056	8.5	20.0	0.8	C302J563-00C000+++	0.056	9.0	27.5	0.8	C303A563-00C000+++	0.056	10.0	27.5	0.8	C303B563-00C000+++
0.068	9.0	20.0	0.8	C302J683-00C000+++	0.068	9.5	27.5	0.8	C303A683-00C000+++	0.068	11.0	27.5	0.8	C303B683-00C000+++
0.082	9.5	20.0	0.8	C302J823-00C000+++	0.082	10.5	27.5	0.8	C303A823-00C000+++	0.082	12.0	27.5	0.8	C303B823-00C000+++
0.10	8.5	27.5	0.8	C302J104-00C000+++	0.10	11.5	27.5	0.8	C303A104-00C000+++	0.10	13.0	27.5	0.8	C303B104-00C000+++
0.12	9.0	27.5	0.8	C302J124-00C000+++	0.12	12.0	27.5	0.8	C303A124-00C000+++	0.12	12.5	33.0	0.8	C303B124-00C000+++
0.15	10.0	27.5	0.8	C302J154-00C000+++	0.15	12.0	33.0	0.8	C303A154-00C000+++	0.15	13.5	33.0	0.8	C303B154-00C000+++
0.18	10.5	27.5	0.8	C302J184-00C000+++	0.18	13.0	33.0	0.8	C303A184-00C000+++	0.18	14.5	33.0	0.8	C303B184-00C000+++
0.22	12.0	27.5	0.8	C302J224-00C000+++	0.22	14.0	33.0	0.8	C303A224-00C000+++	0.22	16.0	33.0	1.0	C303B224-00C000+++
0.27	13.0	27.5	0.8	C302J274-00C000+++	0.27	15.0	33.0	0.8	C303A274-00C000+++	0.27	17.0	33.0	1.0	C303B274-00C000+++
0.33	12.5	33.0	0.8	C302J334-00C000+++	0.33	16.5	33.0	1.0	C303A334-00C000+++	0.33	17.0	41.5	1.0	C303B334-00C000+++
0.39	13.5	33.0	0.8	C302J394-00C000+++	0.39	18.0	33.0	1.0	C303A394-00C000+++	0.39	18.0	41.5	1.0	C303B394-00C000+++
0.47	14.5	33.0	0.8	C302J474-00C000+++	0.47	17.5	41.5	1.0	C303A474-00C000+++	0.47	19.5	41.5	1.0	C303B474-00C000+++
0.56	15.5	33.0	0.8	C302J564-00C000+++	0.56	19.0	41.5	1.0	C303A564-00C000+++	0.56	21.0	41.5	1.0	C303B564-00C000+++
0.68	17.0	33.0	1.0	C302J684-00C000+++	0.68	20.5	41.5	1.0	C303A684-00C000+++	0.68	20.0	56.5	1.0	C303B684-00C000+++
0.82	18.0	33.0	1.0	C302J824-00C000+++	0.82	22.0	41.5	1.0	C303A824-00C000+++	0.82	21.5	56.5	1.0	C303B824-00C000+++
1.0	17.5	41.5	1.0	C302J105-00C000+++	1.0	20.5	56.5	1.0	C303A105-00C000+++	1.0	23.0	56.5	1.0	C303B105-00C000+++
1.2	19.0	41.5	1.0	C302J125-00C000+++	1.2	22.0	56.5	1.0	C303A125-00C000+++	1.2	25.0	56.5	1.0	C303B125-00C000+++
1.5	21.0	41.5	1.0	C302J155-00C000+++	1.5	24.5	56.5	1.0	C303A155-00C000+++	1.5	27.5	56.5	1.0	C303B155-00C000+++
1.8	22.5	41.5	1.0	C302J185-00C000+++										
2.2	24.5	41.5	1.0	C302J225-00C000+++										
2.7	23.0	56.5	1.0	C302J275-00C000+++										
3.3	25.0	56.5	1.0	C302J335-00C000+++										

备注：1. “-”表示容量偏差。 “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%

2. “@”不用作跨线，请参见抗干扰电容器 (Pag.118)

“@” Not suitable for across-the-line applications. Pls refer to Interference Suppression Capacitors.(Pag.118)