

C31 (P)
CBB21 series

金属化聚丙烯膜精密电容器(浸渍型)

Metallized polypropylene film capacitor for precision capacitor(Dipped)

■ 外形图 Outline Drawing

	Forming Lead Shapes			
	I	II	III	IV
	$P \geq F$		$P < F$	
	$0\text{mm} \leq P-F \leq 3\text{mm}$	$3\text{mm} < P-F \leq 8\text{mm}$	$3\text{mm} < F-P \leq 5\text{mm}$	$0\text{mm} < F-P \leq 3\text{mm}$
$F \pm 0.8\text{mm}; A \leq 5.0\text{mm}; B = 4.5 \pm 0.5\text{mm}$				

■ 特点

- 金属化聚丙烯膜介质
- 电容量温度系数小
- 电容量稳定性好

■ 主要用途

- 定时电路、LC 滤波器、振荡电路等要求高频高稳定性的应用场合

■ Features

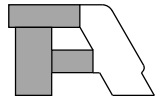
- Metallized polypropylene film
- Temperature coefficient of capacitance is small
- Good capacitance stability

■ Typical Applications

- Timing, LC-filter, oscillator circuits, applications with high frequencies and high stability, etc

■ 技术要求 Specifications

引用标准 Reference Standard	GB/T 10190 (IEC 60384-16)	
气候类别 Climatic Category	55/85/56	
额定温度 Rated Temperature	85°C	
额定电压 Rated Voltage	63V, 100V	
电容量范围 Capacitance Range	1.0nF~100nF	
电容量偏差 Capacitance Tolerance	$\pm 1\%(F)$, $\pm 1.25\%(A)$, $\pm 1.5\%(L)$, $\pm 2\%(G)$, $\pm 2.5\%(B)$, $\pm 3\%(H)$	
耐电压 Voltage Proof	1.6U _R (2s)	
损耗角正切 Dissipation Factor	$\leq 8 \times 10^{-4}$	(20°C, 1kHz)
绝缘电阻 Insulation Resistance	$\geq 100\ 000\ \Omega$	(20°C, 10V, 1min)



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

The 15 digits part number is formed as follow:

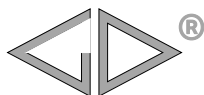
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	1								P				

第 1~3 位	型号代码	Digit 1 to 3	Series code
	C31= CBB21 精密电容		C31= CBB21 for precision capacitor
第 4~5 位	直流额定电压	Digit 4 to 5	D.C. rated voltage
	1J=63V 2A=100V		1J=63V 2A=100V
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
	F=±1%, A=±1.25%, L=±1.5%		F=±1%, A=±1.25%, L=±1.5%
	G=±2%, B=±2.5%, H=±3%		G=±2%, B=±2.5%, H=±3%
第 10 位	引线脚距 P	Digit 10	Pitch
	2=5.0mm 3=7.5mm		2=5.0mm 3=7.5mm
第 11 位	内部特征码	Digit 11	Internal use
第 12~15 位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code

■ 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	2	F=5.0mm	1	表示弯脚 kinked	A	产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm, H=20.0mm (For pitch=7.5mm)
		3	F=7.5mm				(Detail parameter refer to page 17)
F	引线成型 lead kinked	2	F=5.0mm	0	B=4.5mm (The length of B)	0	B 的长度偏差±0.5mm B Length tolerance ±0.5mm
		3	F=7.5mm				
		E	F=7.18mm				
				2	B=3.2mm		
				5	B=3.5mm		

第 12-15 位代码为“C000”表示标准的引线长度(18mm ~ 30mm)
Digit12-15 code “C000” means standard lead length (18mm ~ 30mm)



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■ 外形尺寸 Dimensions(mm)

63Vdc/100Vdc [#]						
C _N (μF)	Wmax	Hmax	Tmax	P	d	Part number
		Crimped lead				
0.0010	7.5	11.0	6.5	5.0	0.5	C311J102-2P****
0.0015	7.5	11.0	6.5	5.0	0.5	C311J152-2P****
0.0022	7.5	11.0	6.5	5.0	0.5	C311J222-2P****
0.0027	7.5	11.0	6.5	5.0	0.5	C311J272-2P****
0.0033	7.5	11.0	6.5	5.0	0.5	C311J332-2P****
0.0039	7.5	11.0	6.5	5.0	0.5	C311J392-2P****
0.0047	7.50	11.5	7.0	5.0	0.5	C311J472-2P****
0.0068	7.50	10.8	6.3	5.0	0.5	C311J682-2P****
0.0082	7.50	11.0	6.5	5.0	0.5	C311J822-2P****
0.010	7.50	11.1	6.6	5.0	0.5	C311J103-2P****
0.022	7.50	10.9	6.4	5.0	0.5	C311J223-2P****
0.0068	10.0	11.2	6.7	7.5	0.5	C311J682-3P****
0.0082	10.0	11.5	7.0	7.5	0.5	C311J822-3P****
0.010	10.0	11.9	7.4	7.5	0.5	C311J103-3P****
0.012	10.0	11.7	7.2	7.5	0.5	C311J123-3P****
0.015	10.0	11.5	7.0	7.5	0.5	C311J153-3P****
0.022	10.0	11.1	6.6	7.5	0.5	C311J223-3P****
0.033	10.0	11.0	6.5	7.5	0.5	C311J333-3P****
0.047	10.0	11.6	7.1	7.5	0.5	C311J473-3P****
0.056	10.0	11.6	7.1	7.5	0.5	C311J563-3P****
0.068	10.0	11.9	7.4	7.5	0.5	C311J683-3P****
0.082	10.0	11.3	6.8	7.5	0.5	C311J823-3P****
0.10	10.0	11.7	7.2	7.5	0.6	C311J104-3P****

- 备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code, F=±1%, A=±1.25%, L=±1.5%, G=±2%, B=±2.5%, H=±3%.
2. “****” 表示引线加工和包装代码(见表 1)。 “****” =lead form and packing code(refer to table 1).
3. “#” 当额定电压为 100Vdc 时, 第 4~5 位是 2A。 “#” when the rated voltage is 100Vdc, the digit 4~5 is 2A.