



Guang Zhou Nan Cai Electronic CO.,LTD.
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規格承認書

(SPECIFICATION FOR APPROVAL)

File No.: Q/BH .TS16949.13TECH1303

Product Name: Metallized polyester film capacitor(Axial-type)

Product Type: C20 (CL20 圆轴向)

Product Code: C20

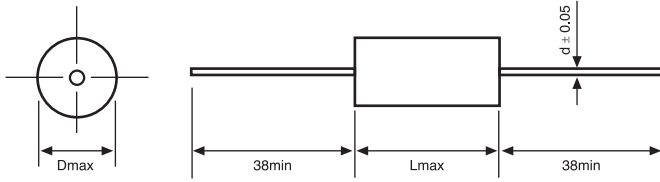
Customer:

Customer Code:

Issue Date: (V3.0)

轴向金属化聚酯膜电容器 Metallized polyester film capacitor(Axial-type)

■ 外形图 Outline Drawing



■ 特点

- 金属化聚酯膜, 卷绕结构
- 体积小, 重量轻, 自愈性能优异
- 外包装聚酯胶带纸, 两端灌注环氧树脂

■ 主要用途

- 隔直, 旁路和耦合(去耦)

■ 技术要求 Specifications

■ Features

- Metallized polyester film, non-inductive wound construction
- Small size, light weight, excellent self-healing property
- Wrapped with polyester adhesive tape and ends filled

■ Typical Applications

- Suitable for blocking, by-pass, coupling, and decoupling

引用标准 Reference Standard	GB/T 7332 (IEC 60384-2)					
气候类别 Climatic Category	55/105/21					
额定温度 Rated Temperature	85℃					
工作温度范围 Operating Temperature Range	-55℃~105℃ (+85℃ to +105℃: decreasing factor 1.25% per °C for UR)					
额定电压 Rated Voltage	50V、63V、100V、250V、400V、630V、1 000V					
电容量范围 Capacitance Range	0.0010μF~10.0μF					
电容量偏差 Capacitance Tolerance	± 5%(J), ± 10%(K), ± 20%(M)					
耐电压 Voltage Proof	1.6UR (5s)					
损耗角正切 Dissipation Factor	< 1.0% (20℃, 1kHz)					
绝缘电阻 Insulation Resistance	≥ 30 000MΩ, CR ≤ 0.33μF ≥ 10 000s CR > 0.33μF (20℃, 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UR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UR/U。 If the working voltage (U) is lower than the rated voltage (UR),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 UR/U.	UR(V)	dV/dt(V/μs)				
		L=12.0	L=14.5	L=20.0	L=27.5	L=33.0
	50/63	6	6	2	1.5	1
	100	9	9	3	2	1
	250	20	20	8	5	2.5
	400	30	30	10	7	4
	630	40	40	15	10	6
1 000	50	50	25	12	8	

The 18 digits part number is formed as follow:

<p>第1~3位 型号代码 C20= CL20</p> <p>第4~5位 直流额定电压 1H=50V 1J=63V 2A=100V 2E=250V 2G=400V 2J=630V 3A=1 000V</p> <p>第6~8位 标称容量 举例: 103=10 × 10³ pF=0.01μF</p> <p>第9位 容量偏差 J= ± 5%, K= ± 10%, M= ± 10%</p> <p>第10位 轴向 0代表轴向</p> <p>第11位 内部特征码</p> <p>第12~15位 引线长度 C000 表示标准的引线长度(38mm min)</p> <p>第16~18位 内部特征码</p>	<p>Digit 1 to 3 Series code C20= CL20</p> <p>Digit 4 to 5 DC rated voltage 1H=50V 1J=63V 2A=100V 2E=250V 2G=400V 2J=630V 3A=1 000V</p> <p>Digit 6 to 8 Rated capacitance value For example: 103=10 × 10³ pF=0.01μF</p> <p>Digit 9 Capacitance tolerance J= ± 5%, K= ± 10%, M= ± 20%</p> <p>Digit 10 Axial 0=axial</p> <p>Digit 11 Internal use</p> <p>Digit 12 to 15 Lead length C000 means lead length(38mm min)</p> <p>Digit 16 to 18 Internal use</p>
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■ 外形尺寸 Dimensions(mm)

50Vdc(30Vac)/63Vdc(40Vac)#					100Vdc(63Vac)					250Vdc(160Vac)				
C _R (μF)	D max	L max	d	Part number	C _R (μF)	D max	L max	d	Part number	C _R (μF)	D max	L max	d	Part number
0.33	5.2	12.0	0.6	C201J334-00C000+++	0.068	5.2	12.0	0.6	C202A683-00C000+++	0.047	5.2	12.0	0.6	C202E473-00C000+++
0.39	5.5	12.0	0.6	C201J394-00C000+++	0.082	5.2	12.0	0.6	C202A823-00C000+++	0.056	5.2	12.0	0.6	C202E563-00C000+++
0.47	5.5	14.5	0.6	C201J474-00C000+++	0.10	5.2	12.0	0.6	C202A104-00C000+++	0.068	5.2	12.0	0.6	C202E683-00C000+++
0.56	6.0	14.5	0.6	C201J564-00C000+++	0.12	5.2	12.0	0.6	C202A124-00C000+++	0.082	5.2	12.0	0.6	C202E823-00C000+++
0.68	6.0	14.5	0.6	C201J684-00C000+++	0.15	5.2	12.0	0.6	C202A154-00C000+++	0.10	5.5	14.5	0.6	C202E104-00C000+++
0.82	6.5	14.5	0.6	C201J824-00C000+++	0.18	5.2	12.0	0.6	C202A184-00C000+++	0.12	5.5	14.5	0.6	C202E124-00C000+++
1.0	7.0	14.5	0.8	C201J105-00C000+++	0.22	5.2	12.0	0.6	C202A224-00C000+++	0.15	5.5	14.5	0.6	C202E154-00C000+++
1.2	7.0	14.5	0.8	C201J125-00C000+++	0.27	5.2	12.0	0.6	C202A274-00C000+++	0.18	5.5	14.5	0.6	C202E184-00C000+++
1.5	6.7	20.0	0.8	C201J155-00C000+++	0.33	6.0	14.5	0.6	C202A334-00C000+++	0.22	6.0	14.5	0.6	C202E224-00C000+++
1.8	7.0	20.0	0.8	C201J185-00C000+++	0.39	6.0	14.5	0.6	C202A394-00C000+++	0.27	6.5	14.5	0.6	C202E274-00C000+++
2.2	7.5	20.0	0.8	C201J225-00C000+++	0.47	6.0	14.5	0.6	C202A474-00C000+++	0.33	6.5	20.0	0.6	C202E334-00C000+++
2.7	8.5	20.0	0.8	C201J275-00C000+++	0.56	6.0	14.5	0.6	C202A564-00C000+++	0.39	6.5	20.0	0.6	C202E394-00C000+++
3.3	9.0	20.0	0.8	C201J335-00C000+++	0.68	6.8	14.5	0.8	C202A684-00C000+++	0.47	7.0	20.0	0.8	C202E474-00C000+++
3.9	9.5	20.0	0.8	C201J395-00C000+++	0.82	7.0	14.5	0.8	C202A824-00C000+++	0.56	7.5	20.0	0.8	C202E564-00C000+++
4.7	8.5	27.5	0.8	C201J475-00C000+++	1.0	7.7	20.0	0.8	C202A105-00C000+++	0.68	8.0	20.0	0.8	C202E684-00C000+++
5.6	9.0	27.5	0.8	C201J565-00C000+++	1.2	7.0	20.0	0.8	C202A125-00C000+++	0.82	8.5	20.0	0.8	C202E824-00C000+++
6.8	10.0	27.5	0.8	C201J685-00C000+++	1.5	8.0	20.0	0.8	C202A155-00C000+++	1.0	9.0	20.0	0.8	C202E105-00C000+++
8.2	10.5	27.5	0.8	C201J825-00C000+++	1.8	8.5	20.0	0.8	C202A185-00C000+++	1.2	8.5	27.5	0.8	C202E125-00C000+++
10	11.0	33.0	0.8	C201J106-00C000+++	2.2	9.0	20.0	0.8	C202A225-00C000+++	1.5	9.0	27.5	0.8	C202E155-00C000+++
					2.7	9.5	20.0	0.8	C202A275-00C000+++	1.8	9.5	27.5	0.8	C202E185-00C000+++
					3.3	9.5	27.5	0.8	C202A335-00C000+++	2.2	11.0	33.0	0.8	C202E225-00C000+++
					3.9	9.5	27.5	0.8	C202A395-00C000+++	2.7	12.0	33.0	0.8	C202E275-00C000+++
					4.7	10.0	33.0	0.8	C202A475-00C000+++	3.3	13.0	33.0	0.8	C202E335-00C000+++
					5.6	10.5	33.0	0.8	C202A565-00C000+++	3.9	14.5	33.0	0.8	C202E395-00C000+++
					6.8	11.5	33.0	0.8	C202A685-00C000+++	4.7	15.5	33.0	0.8	C202E475-00C000+++
					8.2	12.5	33.0	0.8	C202A825-00C000+++	5.6	16.5	33.0	1.0	C202E565-00C000+++
					10	13.5	33.0	0.8	C202A106-00C000+++	6.8	18.5	33.0	1.0	C202E685-00C000+++
										8.2	20.0	33.0	1.0	C202E825-00C000+++
										10	22.0	33.0	1.0	C202E106-00C000+++

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50Vdc时,第4~5位是1H。“#” when the rated voltage is 50Vdc,the digit 4~5 is 1H.

■ 外形尺寸 Dimensions(mm)

400Vdc(200Vac)					630Vdc(220Vac)@					1 000Vdc(250Vac)@				
C _R (μF)	D max	L max	d	Part number	C _R (μF)	D max	L max	d	Part number	C _R (μF)	D max	L max	d	Part number
0.010	5.2	12.0	0.6	C202G103-00C000+++	0.0010	5.2	12.0	0.6	C202J102-00C000+++	0.0010	5.2	12.0	0.6	C203A102-00C000+++
0.012	5.2	12.0	0.6	C202G123-00C000+++	0.0012	5.2	12.0	0.6	C202J122-00C000+++	0.0012	5.2	12.0	0.6	C203A122-00C000+++
0.015	5.2	12.0	0.6	C202G153-00C000+++	0.0015	5.2	12.0	0.6	C202J152-00C000+++	0.0015	5.2	12.0	0.6	C203A152-00C000+++
0.018	5.2	12.0	0.6	C202G183-00C000+++	0.0018	5.2	12.0	0.6	C202J182-00C000+++	0.0018	5.2	12.0	0.6	C203A182-00C000+++
0.022	5.2	12.0	0.6	C202G223-00C000+++	0.0022	5.2	12.0	0.6	C202J222-00C000+++	0.0022	5.2	12.0	0.6	C203A222-00C000+++
0.027	5.2	12.0	0.6	C202G273-00C000+++	0.0027	5.2	12.0	0.6	C202J272-00C000+++	0.0027	5.2	12.0	0.6	C203A272-00C000+++
0.033	5.2	12.0	0.6	C202G333-00C000+++	0.0033	5.2	12.0	0.6	C202J332-00C000+++	0.0033	5.2	12.0	0.6	C203A332-00C000+++
0.039	5.2	14.5	0.6	C202G393-00C000+++	0.0039	5.2	12.0	0.6	C202J392-00C000+++	0.0039	5.2	12.0	0.6	C203A392-00C000+++
0.047	6.5	14.5	0.6	C202G473-00C000+++	0.0047	5.2	12.0	0.6	C202J472-00C000+++	0.0047	5.2	14.5	0.6	C203A472-00C000+++
0.056	6.5	14.5	0.6	C202G563-00C000+++	0.0056	5.2	12.0	0.6	C202J562-00C000+++	0.0056	5.2	14.5	0.6	C203A562-00C000+++
0.068	6.5	14.5	0.6	C202G683-00C000+++	0.0068	6.0	12.0	0.6	C202J682-00C000+++	0.0068	5.2	14.5	0.6	C203A682-00C000+++
0.082	7.0	14.5	0.8	C202G823-00C000+++	0.0082	6.0	12.0	0.6	C202J822-00C000+++	0.0082	6.0	14.5	0.6	C203A822-00C000+++
0.10	7.5	14.5	0.8	C202G104-00C000+++	0.010	6.0	14.5	0.6	C202J103-00C000+++	0.010	6.0	20.0	0.6	C203A103-00C000+++
0.12	8.0	14.5	0.8	C202G124-00C000+++	0.012	6.0	14.5	0.6	C202J123-00C000+++	0.012	6.0	20.0	0.6	C203A123-00C000+++
0.15	7.0	20.0	0.6	C202G154-00C000+++	0.015	6.5	14.5	0.6	C202J153-00C000+++	0.015	6.5	20.0	0.6	C203A153-00C000+++
0.18	7.0	20.0	0.8	C202G184-00C000+++	0.018	7.0	14.5	0.8	C202J183-00C000+++	0.018	6.5	20.0	0.6	C203A183-00C000+++
0.22	7.5	20.0	0.8	C202G224-00C000+++	0.022	7.5	14.5	0.8	C202J223-00C000+++	0.022	7.0	20.0	0.8	C203A223-00C000+++
0.27	8.0	20.0	0.8	C202G274-00C000+++	0.027	8.0	14.5	0.8	C202J273-00C000+++	0.027	7.5	20.0	0.8	C203A273-00C000+++
0.33	9.0	20.0	0.8	C202G334-00C000+++	0.033	7.0	20.0	0.8	C202J333-00C000+++	0.033	6.5	27.5	0.6	C203A333-00C000+++
0.39	9.5	20.0	0.8	C202G394-00C000+++	0.039	7.5	20.0	0.8	C202J393-00C000+++	0.039	6.5	27.5	0.6	C203A393-00C000+++
0.47	8.5	27.5	0.8	C202G474-00C000+++	0.047	7.5	20.0	0.8	C202J473-00C000+++	0.047	7.0	27.5	0.8	C203A473-00C000+++
0.56	9.0	27.5	0.8	C202G564-00C000+++	0.056	8.0	20.0	0.8	C202J563-00C000+++	0.056	7.5	27.5	0.8	C203A563-00C000+++
0.68	10.0	27.5	0.8	C202G684-00C000+++	0.068	8.5	20.0	0.8	C202J683-00C000+++	0.068	8.0	27.5	0.8	C203A683-00C000+++
0.82	10.5	27.5	0.8	C202G824-00C000+++	0.082	9.0	20.0	0.8	C202J823-00C000+++	0.082	8.5	27.5	0.8	C203A823-00C000+++
1.0	10.5	33.0	0.8	C202G105-00C000+++	0.10	8.0	27.5	0.8	C202J104-00C000+++	0.10	9.0	27.5	0.8	C203A104-00C000+++
1.2	11.5	33.0	0.8	C202G125-00C000+++	0.12	8.5	27.5	0.8	C202J124-00C000+++	0.12	9.5	27.5	0.8	C203A124-00C000+++
1.5	12.5	33.0	0.8	C202G155-00C000+++	0.15	9.0	27.5	0.8	C202J154-00C000+++	0.15	9.5	33.0	0.8	C203A154-00C000+++
1.8	13.5	33.0	0.8	C202G185-00C000+++	0.18	10.0	27.5	0.8	C202J184-00C000+++	0.18	10.0	33.0	0.8	C203A184-00C000+++
2.2	14.5	33.0	0.8	C202G225-00C000+++	0.22	10.5	27.5	0.8	C202J224-00C000+++	0.22	11.0	33.0	0.8	C203A224-00C000+++
2.7	16.0	33.0	1.0	C202G275-00C000+++	0.27	11.5	27.5	0.8	C202J274-00C000+++	0.27	12.0	33.0	0.8	C203A274-00C000+++
3.3	17.5	33.0	1.0	C202G335-00C000+++	0.33	11.0	33.0	0.8	C202J334-00C000+++	0.33	13.0	33.0	0.8	C203A334-00C000+++
					0.39	12.0	33.0	0.8	C202J394-00C000+++	0.39	14.0	33.0	0.8	C203A394-00C000+++
					0.47	12.5	33.0	0.8	C202J474-00C000+++	0.47	15.0	33.0	0.8	C203A474-00C000+++
					0.56	13.5	33.0	0.8	C202J564-00C000+++					
					0.68	14.5	33.0	0.8	C202J684-00C000+++					
					0.82	16.0	33.0	1.0	C202J824-00C000+++					
					1.0	17.5	33.0	1.0	C202J105-00C000+++					

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.116)
 “@” Not suitable for across-the-line applications. Pls refer to Interference Suppression Capacitors(Pag. 116)