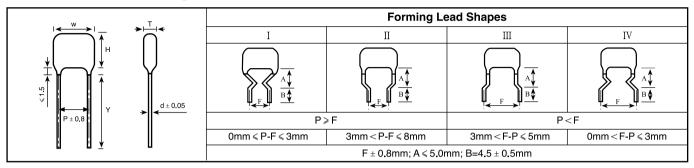


金属化聚酯膜电容器(浸渍型)

Metallized polyester film capacitor(Dipped)

■ 外形图 Outline Drawing



■ 特点

- 金属化聚酯膜,无感卷绕结构
- 体积小,自愈性好
- 阻燃性环氧粉末包封(UL94/V-0)

■ 主要用途

● 用于开关电源、电子镇流器和变频器等中间电路 直流滤波(如:DC-Link、PFC等)

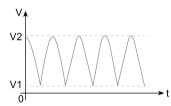
■ Features

- Metallized polyester film, non-inductive wound construction
- Small size and Excellent self-healing property
- Flame retardation epoxy resin coating (UL94/V-0)

■ Typical Applications

 As intermediate circuit capacitors for SMPS, electronic ballast, inverter (i.e. DC-link, DC-filter and P.F.C)

a: The series product is only recommended to use in DC-filter or DC-blocking circuits. It means the voltage applied to the capacitors must be unidirectional ripple voltage. The typical voltage curve is as follows reference. If you have any questions for this note, please feel free to contact with our technical engineer.



Here: $V_1 \ge 0$, $V_2 \le U_R$, $V_1 = (V_2 - V_1) \div \sqrt{2}$, $V_2 = U_R = 2\pi f \times C \times (V_2 - V_1) \div \sqrt{2}$ UR is the rated voltage of the capacitor

■ 技术要求 Specifications

引用标准 Reference Standard	GB/T 7332 (IEC 60384–2)	GB/T 7332 (IEC 60384–2)						
气候类别 Climatic Category	55/105/21	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 ℃ for U _R)							
额定电压 Rated Voltage	250V, 400V/	450V, 520V, 63	30V						
电容量范围 Capacitance Range	0.010µF ~ 1	0.0µF							
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)								
耐电压 Voltage Proof	1.6UR (5s)	R (5s)							
损耗角正切 Dissipation Factor	≤ 0.8% (20°C , 1kHz)								
绝缘电阻 Insulation Resistance	$R \ge 30~000M~\Omega$, $C_N \le 0.33\mu F$ $RC_N \ge 5~000s$, $C_N > 0.33\mu F$ (20°C , 100V, 1min)								
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):	H-AA	dV/dt (V/μs)							
│ 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	U _R (V)	P=7.5	P=10.0	P=15.0	P=22.5				
以 UR/U。	250	80	60	50	30				
If the working voltage(U) is lower than the rated	400/450	150	120	100	50				
voltage(U _R), the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is	520	200	180	150	80				
obtain by multiplying the right value with UR/U.	630	350	300	200	100				





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

		3 . 3 3 . 0 0 10 11 12 1							. •	 	. •		• . •	<u> </u>		
С	2	2														
第1~	3位	型:	型号代码									Digit 1	to 3	Series code		
		C2	C22=CL21X											C22=CL21X		
第4~	5位	直	直流额定电压									Digit 4	to 5	DC rated voltage		
		2E	=250	OV 20	6=400	OV 2	S=45	50V						2E=250V 2G=400V 2S=450V		
		2T	=520)V 2.	J=630	VC								2T=520V 2J=630V		
第6~	8位	标	称容量	量								Digit 6	to 8	Rated capacitance value		
		举	例: ´	103=	10×	10³pF	=0.0	1μF						For example: $103=10 \times 10^3 pF=0.01 \mu F$		
第9位	Ì	容	量偏	差								Digit 9		Capacitance tolerance		
		J=	± 5%	% K=	± 10)% N	/l= ±	20%						$J = \pm 5\%, K = \pm 10\%, M = \pm 20\%$		
第10 ⁻	位	引:	线脚罩	距Ρ								Digit 10)	Pitch		
		3=	-7.5m	nm 4	=10.	0mm	١							3=7.5mm 4=10.0mm		
		6=	:15.0	mm	9=22	2.5mr	m							6=15.0mm 9=22.5mm		
第11 ⁻	位	内·	部特征	证码								Digit 1	l	Internal use		
第12	~15位	注 引:	线加工	工和包	包装化	と码						Digit 12	2 to 15	Lead form and packaging code		
第16	~18位	内 内	部特征	证码								Digit 16	6 to 18	Internal use		

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

第 12	2位 Digit 12	第 1	3 位 Digit 13	第 14	4 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 3 4 6	F=5.0mm F=7.5mm F=10.0mm F=15.0mm	1	表示弯脚 kinked	A E	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) P3=25.4mm;H=20.0mm (For pitch=10.0/15.0mm) (Detail information refer to pag 18)				
F	引线成型 lead kinked	2 3 4 6	F=5.0mm F=7.5mm F=10.0mm F=15.0mm	0	B=4.5mm (the length of B)	0	B 的长度偏差 ±0.5mm B Length tolerance ±0.5mm				
Υ	直脚 straight lead "Y" in the	代码 Code	说明 explanat	l explanation		0	引线长度偏差 ±0.5mm Length tolerance ±0.5mm				
	figure above	45	引线长度 4.5m lead length 4.5								

55



■ 外形尺寸 Dimensions (mm)

小型化 Miniature version

	250Vdc										
C _N (µF)	W max	H max	T max	Р	d	Part number					
0.22	9.8	7.9	4.0	7.5	0.5	C222E224-3S****+++					
0.27	9.8	8.8	4.1	7.5	0.5	C222E274-3S****+++					
0.33	9.8	9.1	4.5	7.5	0.5	C222E334-3S****+++					
0.47	9.8	11.4	5.0	7.5	0.5	C222E474–3S****+++					
0.56	9.8	12.9	5.1	7.5	0.5	C222E564-3S****+++					
0.68	9.8	13.4	5.6	7.5	0.5	C222E684-3S****+++					
0.82	9.8	13.9	6.1	7.5	0.5	C222E824-3S****+++					
1.00	9.8	14.5	6.7	7.5	0.5	C222E105-3S****+++					
0.33	12.3	7.9	4.1	10.0	0.6	C222E334-4S****+++					
0.47	12.3	9.6	4.2	10.0	0.6	C222E474-4S****+++					
0.56	12.3	9.9	4.7	10.0	0.6	C222E564-4S****+++					
0.68	12.3	10.3	5.1	10.0	0.6	C222E684-4S****+++					
0.82	12.3	10.8	5.5	10.0	0.6	C222E824-4S****+++					
1.00	12.3	11.3	6.1	10.0	0.6	C222E105-4S****+++					

	520Vdc									
C _N (µF)	W max	H max	T max	Р	d	Part number				
0.033	9.8	7.7	3.9	7.5	0.5	C222T333-3S****+++				
0.047	9.8	8.8	4.1	7.5	0.5	C222T473-3S****+++				
0.068	9.8	9.4	4.8	7.5	0.5	C222T683-3S****+++				
0.10	9.8	10.8	5.8	7.5	0.5	C222T104-3S****+++				
0.15	9.8	11.9	7.0	7.5	0.5	C222T154-3S****+++				
0.068	12.3	8.7	4.0	10.0	0.6	C222T683-4S****+++				
0.10	12.3	9.9	4.5	10.0	0.6	C222T104-4S****+++				
0.15	12.3	10.7	5.3	10.0	0.6	C222T154-4S****+++				
0.22	12.3	13.3	6.0	10.0	0.6	C222T224-4S****+++				
0.33	12.3	14.6	7.3	10.0	0.6	C222T334-4S****+++				

			400V	dc/450	Vdc [#]			
C _N (µF)	W max	H max	T max	Р	d	Part number		
0.047	9.8	6.9	3.7	7.5	0.5	C222G473-3S****+++		
0.068	9.8	7.8	4.0	7.5	0.5	C222G683-3S****+++		
0.082	9.8	8.7	4.0	7.5	0.5	C222G823-3S****+++		
0.10	9.8	9.0	4.4	7.5	0.5	C222G104-3S****+++		
0.12	9.8	9.3	4.7	7.5	0.5	C222G124-3S****+++		
0.15	9.8	10.8	5.1	7.5	0.5	C222G154-3S****+++		
0.18	9.8	11.2	5.5	7.5	0.5	C222G184-3S****+++		
0.22	9.8	11.8	6.0	7.5	0.5	C222G224-3S****+++		
0.27	9.8	12.4	6.6	7.5	0.5	C222G274-3S****+++		
0.10	12.3	8.4	3.8	10.0	0.6	C222G104-4S****+++		
0.12	12.3	8.7	4.0	10.0	0.6	C222G124-4S****+++		
0.15	12.3	9.0	4.4	10.0	0.6	C222G154-4S****+++		
0.18	12.3	9.4	4.7	10.0	0.6	C222G184-4S****+++		
0.22	12.3	10.3	4.9	10.0	0.6	C222G224-4S****+++		
0.27	12.3	10.8	5.4	10.0	0.6	C222G274-4S****+++		
0.33	12.3	12.3	5.4	10.0	0.6	C222G334-4S****+++		
0.47	12.3	13.9	6.6	10.0	0.6	C222G474-4S****+++		
0.68	12.3	16.8	7.4	10.0	0.6	C222G684-4S***+++		
0.82	12.3	17.5	8.2	10.0	0.6	C222G824-4S****+++		
1.00	12.3	18.4	9.1	10.0	0.6	C222G105-4S****+++		

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

^{2. &}quot;****"表示引线加工和包装代码(见table 1)。 "****" =lead form and packaging code(refer to table 1)3. "#" 当额定电压为450Vdc时,第4~5位是2S。 "#" when the rated voltage is 450Vdc,the digit 4~5 is 2S.



■ 外形尺寸 Dimensions (mm)

	250Vdc										
C _N (μF)	W max	H max	T max	Р	d	Part number					
0.10	9.8	7.7	4.0	7.5	0.5	C222E104-30****+++					
0.15	9.8	8.3	4.5	7.5	0.5	C222E154-30****+++					
0.22	10.0	9.9	4.9	7.5	0.5	C222E224-30****+++					
0.33	10.0	10.4	5.7	7.5	0.5	C222E334-30****+++					
0.47	10.0	11.8	6.3	7.5	0.5	C222E474-30****+++					
0.68	10.0	13.9	6.9	7.5	0.5	C222E684-30****+++					
1.0	10.0	15.3	8.4	7.5	0.5	C222E105-30****+++					
0.33	12.5	9.0	5.2	10.0	0.6	C222E334-40****+++					
0.47	12.5	10.8	5.4	10.0	0.6	C222E474-40***+++					
0.68	12.5	11.7	6.3	10.0	0.6	C222E684-40****+++					
1.0	12.5	14.4	7.4	10.0	0.6	C222E105-40****+++					
1.5	12.5	16.9	8.4	10.0	0.6	C222E155-40****+++					
2.2	12.5	19.7	9.5	10.0	0.6	C222E225-40****+++					
0.47	17.8	9.3	4.7	15.0	0.8	C222E474-60****+++					
0.68	17.8	10.0	5.4	15.0	0.8	C222E684-60****+++					
1.0	17.8	12.0	6.5	15.0	0.8	C222E105-60****+++					
1.5	17.8	14.2	7.2	15.0	0.8	C222E155-60****+++					
2.2	17.8	16.6	8.0	15.0	0.8	C222E225-60****+++					
3.3	17.8	19.3	9.2	15.0	0.8	C222E335-60****+++					
4.7	17.8	21.2	11.0	15.0	0.8	C222E475-60***+++					
1.0	25.5	10.9	5.5	22.5	0.8	C222E105-90****+++					
1.5	25.5	12.9	5.9	22.5	0.8	C222E155-90****+++					
2.2	25.5	13.9	6.9	22.5	0.8	C222E225-90****+++					
3.3	25.5	16.4	7.8	22.5	0.8	C222E335-90****+++					
4.7	25.5	18.8	8.7	22.5	0.8	C222E475-90***+++					
6.8	25.5	20.6	10.5	22.5	0.8	C222E685-90****+++					
10.0	25.5	23.0	12.9	22.5	0.8	C222E106-90****+++					

400Vdc/450Vdc*									
			400 0	ac/450	vac				
C _N (μF)	W max	H max	T max	Р	d	Part number			
0.033	10.0	7.1	4.0	7.5	0.5	C222G333-30****+++			
0.047	10.0	7.1	4.0	7.5	0.5	C222G473-30****+++			
0.068	10.0	8.0	4.4	7.5	0.5	C222G683-30****+++			
0.10	10.0	9.7	5.1	7.5	0.5	C222G104-30****+++			
0.15	10.0	10.6	6.0	7.5	0.5	C222G154-30****+++			
0.22	10.3	12.1	6.7	7.5	0.5	C222G224-30****+++			
0.10	12.5	9.1	4.4	10.0	0.6	C222G104-40****+++			
0.15	12.5	9.7	5.1	10.0	0.6	C222G154-40****+++			
0.22	12.5	11.1	5.7	10.0	0.6	C222G224-40***+++			
0.33	12.5	13.2	6.2	10.0	0.6	C222G334-40****+++			
0.47	12.5	15.4	6.8	10.0	0.6	C222G474-40***+++			
0.68	12.5	16.8	8.2	10.0	0.6	C222G684-40****+++			
1.0	12.5	19.6	9.4	10.0	0.6	C222G105-40****+++			
0.22	17.8	10.3	4.9	15.0	0.8	C222G224-60****+++			
0.33	17.8	11.1	5.7	15.0	0.8	C222G334-60***+++			
0.47	17.8	13.1	6.1	15.0	0.8	C222G474-60***+++			
0.68	17.8	15.3	6.8	15.0	0.8	C222G684-60****+++			
1.0	17.8	17.2	8.7	15.0	0.8	C222G105-60****+++			
1.5	17.8	20.1	10.0	15.0	0.8	C222G155-60****+++			
2.2	17.8	22.3	12.2	15.0	0.8	C222G225-60****+++			
0.47	25.5	11.3	5.9	22.5	0.8	C222G474-90****+++			
0.68	25.5	13.3	6.3	22.5	0.8	C222G684-90****+++			
1.0	25.5	14.4	7.4	22.5	0.8	C222G105-90****+++			
1.5	25.5	16.9	8.3	22.5	0.8	C222G155-90****+++			
2.2	25.5	19.6	9.5	22.5	0.8	C222G225-90****+++			
3.3	25.5	21.8	11.7	22.5	0.8	C222G335-90****+++			

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 packaging code(refer to table 1)
3. "#"当额定电压为450Vdc时,第4~5位是2S。
"#" when the rated voltage is 450Vdc,the digit 4~5 is 2S.



■ 外形尺寸 Dimensions (mm)

	520Vdc										
C _N (µF)	W max	H max	T max	Р	d	Part number					
0.022	9.8	7.5	4.0	7.5	0.5	C222T223-30****+++					
0.033	9.8	8.5	4.4	7.5	0.5	C222T333-30****+++					
0.047	9.8	9.6	4.7	7.5	0.5	C222T473-30****+++					
0.068	9.8	10.4	5.4	7.5	0.5	C222T683-30****+++					
0.068	12.5	9.6	4.7	10.0	0.6	C222T683-40****+++					
0.10	12.5	10.9	5.5	10.0	0.6	C222T104-40****+++					
0.15	12.5	11.9	6.5	10.0	0.6	C222T154-40****+++					
0.22	12.5	14.1	7.1	10.0	0.6	C222T224-40****+++					
0.33	12.5	15.6	8.6	10.0	0.6	C222T334-40***+++					
0.10	17.8	9.4	4.7	15.0	0.8	C222T104-60****+++					
0.15	17.8	10.2	5.5	15.0	0.8	C222T154-60****+++					
0.22	17.8	11.6	6.1	15.0	0.8	C222T224-60***+++					
0.33	17.8	13.7	6.7	15.0	0.8	C222T334-60****+++					
0.47	17.8	14.9	7.9	15.0	0.8	C222T474-60****+++					
0.68	17.8	17.5	8.9	15.0	0.8	C222T684-60****+++					
1.0	17.8	20.9	10.7	15.0	0.8	C222T105-60****+++					
1.5	17.8	23.4	13.2	15.0	0.8	C222T155-60****+++					
0.33	25.5	12.4	5.4	22.5	0.8	C222T334-90****+++					
0.47	25.5	13.3	6.3	22.5	0.8	C222T474-90****+++					
0.68	25.5	15.5	7.0	22.5	0.8	C222T684-90****+++					
1.0	25.5	18.5	8.4	22.5	0.8	C222T105-90****+++					
1.5	25.5	20.4	10.3	22.5	0.8	C222T155-90****+++					
2.2	25.5	22.6	12.5	22.5	0.8	C222T225-90****+++					

630Vdc									
C _N (µF)	W max	H max	T max	Р	d	Part number			
0.010	9.8	7.6	4.1	7.5	0.5	C222J103-30****+++			
0.015	9.8	7.6	4.1	7.5	0.5	C222J153-30****+++			
0.022	9.8	8.1	4.6	7.5	0.5	C222J223-30****+++			
0.033	9.8	9.2	5.1	7.5	0.5	C222J333-30****+++			
0.047	9.8	10.5	5.5	7.5	0.5	C222J473-30****+++			
0.068	9.8	11.9	6.2	7.5	0.5	C222J683-30****+++			
0.10	9.8	13.1	7.7	7.5	0.5	C222J104-30****+++			
0.047	12.5	9.6	4.6	10.0	0.6	C222J473-40***+++			
0.068	12.5	10.3	5.3	10.0	0.6	C222J683-40****+++			
0.10	12.5	11.2	6.5	10.0	0.6	C222J104-40***+++			
0.15	12.5	13.9	6.9	10.0	0.6	C222J154-40****+++			
0.22	12.5	15.3	8.3	10.0	0.6	C222J224-40***+++			
0.10	17.8	10.6	5.1	15.0	0.8	C222J104-60****+++			
0.15	17.8	12.5	5.5	15.0	0.8	C222J154-60****+++			
0.22	17.8	13.5	6.5	15.0	0.8	C222J224-60***+++			
0.33	17.8	14.8	7.8	15.0	0.8	C222J334-60****+++			
0.47	17.8	16.3	9.2	15.0	0.8	C222J474-60***+++			
0.68	17.8	19.1	10.4	15.0	0.8	C222J684-60****+++			
1.0	17.8	22.8	12.6	15.0	0.8	C222J105-60****+++			
1.5	17.8	25.8	15.6	15.0	0.8	C222J155-60****+++			
0.22	25.5	11.2	5.7	22.5	0.8	C222J224-90****+++			
0.33	25.5	12.2	6.7	22.5	0.8	C222J334-90****+++			
0.47	25.5	14.3	7.3	22.5	0.8	C222J474-90****+++			
0.68	25.5	15.7	8.7	22.5	0.8	C222J684-90****+++			
1.0	25.5	20.0	9.8	22.5	0.8	C222J105-90****+++			
1.5	25.5	22.2	12.1	22.5	0.8	C222J155-90****+++			
2.2	25.5	24.9	14.8	22.5	0.8	C222J225-90****+++			

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 packaging code(refer to table 1)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Film Capacitors category:

Click to view products by FARATRONIC manufacturer:

Other Similar products are found below:

F339X134748MIP2T0 F450KG153J250ALH0J 750-1018 MKP2 0.01/100/5 PCM5 FKP1-1500160010P15 FKP1R031007D00JYSD FKP1R031507E00JYSD FKP1U024707E00KYSD 82DC4100CK60J 82EC1100DQ50K PFR5101J100J11L16.5TA18

PME261JB5220KR19T0 A451GK223M040A A561ED221M450A QXJ2E474KTPT QXL2B333KTPT R49AN347000A1K

EEC2G505HQA406 B25668A6676A375 B25673A4282E140 BFC233868148 BFC2370GC222 C3B2AD44400B20K C4ASWBU3220A3EK CB027C0473J-- CB177I0184J-- CB182K0184J-- 23PW210 KP1830-247/061-G 950CQW5H-F SBDC3470AA10J SCD105K122A3-22 2N3155 A571EH331M450A F601BL225K063CL60A FKP1-2202KV5P15 FKS3-680040010P10 QXL2E473KTPT R474I31005001M R49AW447000B1K 445450-1 B25669A3996J375 46KI322000M1M 46KR415050M1K 4BSNBX4100ZBFJ MKP383510063JKP2T0 MKPY2-.02230020P15 MKT 1813-368-015 C44EFGR6400ZA0J 46KN410000N1K