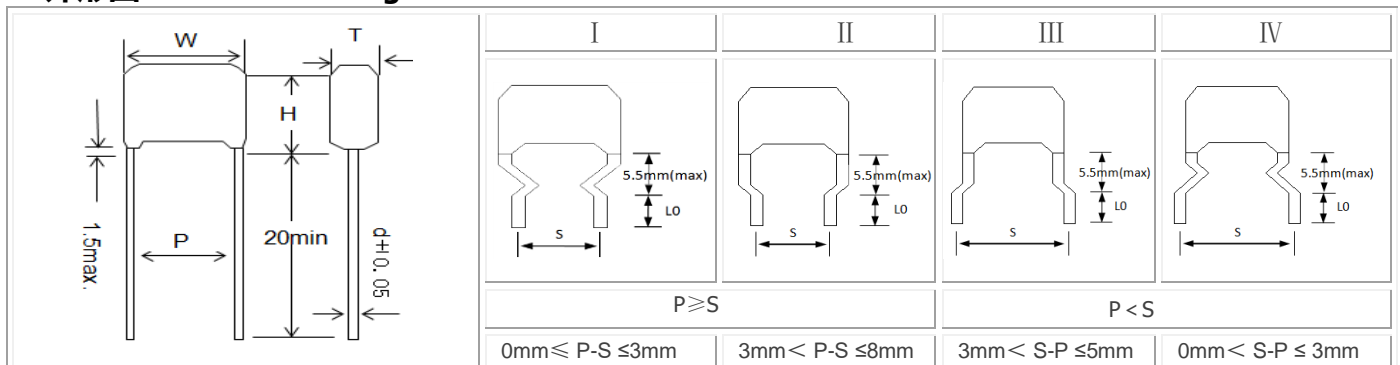


金属化聚酯膜电容器 (浸渍型) Metallized polyester film capacitor(Dipped)

■ 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
- 阻燃性环氧粉末封装

■ 主要用途

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

■ Features

- Metallized polyester film, non-inductive wound construction
- Small size and Excellent self-healing property
- Flame retardation epoxy resin powder coated

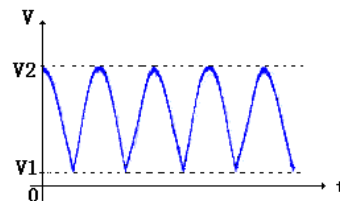
■ Typical Applications

- As intermediate circuit capacitors for SMPS、Electronic Ballast、
- inverter(I.e DC-Link and P.F.C).

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.

$$\text{Here: } V_1 \geq 0, V_2 \leq U_R, I_{rms} = 2\pi f \times C \times (V_2 - V_1) \div \sqrt{2}$$

U_R is the rated voltage of the capacitor



■ 技术要求 Specifications

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°C				
工作温度范围 Operating temperature	-55°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for VR(dc))				
额定电压 Rated Voltage	250V, 400V/450V, 520V, 630V				
电容量范围 Capacitance Range	0.010μF ~ 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°C, 1kHz)				
绝缘电阻 Insulation Resistance	≥30 000MΩ, $C_R \leq 0.33\mu F$ ≥5 000s, $C_R > 0.33\mu F$ (20°C, 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 UR 低, 电容器可工作在更高的 dv/dt 场合。这样 dv/dt 允许值为右表值乘 UR/U。	UR(V)	dv/dt (V/μs)			
		P=7.5	P=10	P=15	P=22
	250	80	60	50	30
	400/450	150	120	100	50
	520	200	180	150	80
630	350	300	200	100	

产品代码说明 Part number system

■ 18 位产品代码说明如下:

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
□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□

W 2 7

第 1~3 位: 型号代码

W27=CL21S

第 4~5 位: 直流额定电压

2E=250V 2G=400V 2S=450V
3T=520V 2J=630V

第 6~8 位: 标称容量

举例 : 104 = 10×10^4 PF = 0.1 μ f

第 9 位: 容量偏差

J=±5%, K=±10%, M=±20%

第 10 位: 引线脚距

J=7.5mm K=10mm M=15mm
P=22.0mm

第 11 位: 引线线径

5= CP 0.5mm 6= CP 0.6mm
7= CP 0.7mm 8= CP 0.8mm
1= CU 1.0mm 9= CU 0.8mm
2= CU 0.5mm 3= CU 0.6mm
4= CU 0.7mm

第 12 位: 引线加工和包装代码

L= 直脚 K= 引线成型
T= 弹带包装

第 13~18 位: 内部特征码

Digit 1 to 3: Series code

W27=CL21S

Digit 4 to 5: DC rated voltage

2E=250V 2G=400V 2S=450V
3T=520V 2J=630V

Digit 6 to 8: Rated capacitance

For example: 104 = 10×10^4 PF = 0.1 μ f

Digit 9: Capacitance tolerance

J=±5%, K=±10%, M=±20%

Digit 10: Pitch

J=7.5mm K=10mm M=15mm
P=22.0mm

Digit 11: Lead Wire diameter

5= CP 0.5mm 6= CP 0.6mm
7= CP 0.7mm 8= CP 0.8mm
1= CU 1.0mm 9= CU 0.8mm
2= CU 0.5mm 3= CU 0.6mm
4= CU 0.7mm

Digit 12: Lead form and packaging code

L= straight lead K= Lead kinked
T= ammo-pack

Digit 13 to 18: Internal use

■ 外形尺寸 Dimensions (mm)

250Vdc						
Cn (μ F)	W max	H max	T max	P	d	Part number
0.22	9.5	9.0	4.4	7.5	0.5	W272E224-J5*****
0.33	9.5	9.8	5.2	7.5	0.5	W272E334-J5*****
0.47	9.5	11.2	5.8	7.5	0.5	W272E474-J5*****
0.68	9.5	13.4	6.4	7.5	0.5	W272E684-J5*****
1.0	9.5	14.8	7.8	7.5	0.5	W272E105-J5*****
0.33	12.5	8.5	4.7	10.0	0.6	W272E334-K6*****
0.47	12.5	10.3	4.9	10.0	0.6	W272E474-K6*****
0.68	12.5	11.2	5.8	10.0	0.6	W272E684-K6*****
1.0	12.5	13.4	6.4	10.0	0.6	W272E105-K6*****
1.5	12.5	15.9	7.3	10.0	0.6	W272E155-K6*****
2.2	12.5	18.6	8.5	10.0	0.6	W272E225-K6*****
0.47	17.5	8.8	4.2	15.0	0.8	W272E474-M8*****
0.68	17.5	9.6	4.9	15.0	0.8	W272E684-M8*****
1.0	17.5	11.0	5.6	15.0	0.8	W272E105-M8*****
1.5	17.5	13.2	6.2	15.0	0.8	W272E155-M8*****
2.2	17.5	15.6	7.0	15.0	0.8	W272E225-M8*****
3.3	17.5	18.3	8.2	15.0	0.8	W272E335-M8*****
4.7	17.5	20.2	10.1	15.0	0.8	W272E475-M8*****
1.0	25.0	9.9	4.5	22.0	0.8	W272E105-P8*****
1.5	25.0	11.9	4.9	22.0	0.8	W272E155-P8*****
2.2	25.0	12.9	6.0	22.0	0.8	W272E225-P8*****
3.3	25.0	15.4	6.8	22.0	0.8	W272E335-P8*****
4.7	25.0	17.8	7.7	22.0	0.8	W272E475-P8*****
6.8	25.0	19.7	9.5	22.0	0.8	W272E685-P8*****
10.0	25.0	22.0	11.9	22.0	0.8	W272E106-P8*****

400VDC/450Vdc#						
Cn (μ F)	W max	H max	T max	P	d	Part number
0.047	9.5	7.1	3.9	7.5	0.5	W272G473-J5*****
0.068	9.5	8.0	4.2	7.5	0.5	W272G683-J5*****
0.10	9.5	9.2	4.6	7.5	0.5	W272G104-J5*****
0.15	9.5	10.1	5.5	7.5	0.5	W272G154-J5*****
0.10	12.5	8.6	4.0	10.0	0.6	W272G104-K6*****
0.15	12.5	9.2	4.6	10.0	0.6	W272G154-K6*****
0.22	12.5	10.5	5.1	10.0	0.6	W272G224-K6*****
0.33	12.5	12.6	5.7	10.0	0.6	W272G334-K6*****
0.47	12.5	14.8	6.3	10.0	0.6	W272G474-K6*****
0.68	12.5	16.2	7.6	10.0	0.6	W272G684-K6*****
1.0	12.5	19.0	8.9	10.0	0.6	W272G105-K6*****
0.22	17.5	9.8	4.4	15.0	0.8	W272G224-M8*****
0.33	17.5	10.7	5.3	15.0	0.8	W272G334-M8*****
0.47	17.5	12.6	5.7	15.0	0.8	W272G474-M8*****
0.68	17.5	14.8	6.3	15.0	0.8	W272G684-M8*****
1.0	17.5	16.3	7.7	15.0	0.8	W272G105-M8*****
1.5	17.5	19.2	9.1	15.0	0.8	W272G155-M8*****
2.2	17.5	21.4	11.2	15.0	0.8	W272G225-M8*****
0.47	25.0	10.3	4.9	22.0	0.8	W272G474-P8*****
0.68	25.0	12.3	5.3	22.0	0.8	W272G684-P8*****
1.0	25.0	13.4	6.4	22.0	0.8	W272G105-P8*****
1.5	25.0	15.9	7.3	22.0	0.8	W272G155-P8*****
2.2	25.0	18.6	8.5	22.0	0.8	W272G225-P8*****
3.3	25.0	20.8	10.7	22.0	0.8	W272G335-P8*****

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

2. 第 12 位表示引线加工和包装代码, L= 直脚 straight lead K= 引线成型 Lead kinked T= 弹带包装 ammo-pack

3. "#"当额定电压是 450VDC 时, 第 4~5 位代码是 2S。"# "when the rated voltage is 450Vdc, the digit 4~5 is 2S.

■ 外形尺寸 Dimensions (mm)

520Vdc						
Cn (μ F)	W max	H max	T max	P	d	Part number
0.022	9.5	7.5	4.0	7.5	0.5	W273T223-J5*****
0.033	9.5	8.5	4.4	7.5	0.5	W273T333-J5*****
0.047	9.5	9.6	4.7	7.5	0.5	W273T473-J5*****
0.068	9.5	10.4	5.4	7.5	0.5	W273T683-J5*****
0.068	12.5	9.6	4.7	10.0	0.6	W273T683-K6*****
0.10	12.5	10.9	5.2	10.0	0.6	W273T104-K6*****
0.15	12.5	11.9	6.2	10.0	0.6	W273T154-K6*****
0.22	12.5	14.1	6.8	10.0	0.6	W273T224-K6*****
0.33	12.5	15.6	8.3	10.0	0.6	W273T334-K6*****
0.10	17.5	9.4	4.5	15.0	0.8	W273T104-M8*****
0.15	17.5	10.2	5.2	15.0	0.8	W273T154-M8*****
0.22	17.5	11.6	5.8	15.0	0.8	W273T224-M8*****
0.33	17.5	13.7	6.5	15.0	0.8	W273T334-M8*****
0.47	17.5	14.9	7.7	15.0	0.8	W273T474-M8*****
0.68	17.5	17.5	8.6	15.0	0.8	W273T684-M8*****
1.0	17.5	20.4	10.0	15.0	0.8	W273T105-M8*****
1.5	17.5	22.9	12.5	15.0	0.8	W273T155-M8*****
0.33	25.0	12.4	5.2	22.0	0.8	W273T334-P8*****
0.47	25.0	13.3	6.0	22.0	0.8	W273T474-P8*****
0.68	25.0	15.5	6.7	22.0	0.8	W273T684-P8*****
1.0	25.0	18.1	7.6	22.0	0.8	W273T105-P8*****
1.5	25.0	19.9	9.5	22.0	0.8	W273T155-P8*****
2.2	25.0	22.2	11.8	22.0	0.8	W273T225-P8*****

630Vdc						
Cn (μ F)	W max	H max	T max	P	d	Part number
0.010	9.5	7.6	3.9	7.5	0.5	W272J103-J5*****
0.015	9.5	7.6	3.9	7.5	0.5	W272J153-J5*****
0.022	9.5	8.1	4.4	7.5	0.5	W272J223-J5*****
0.033	9.5	9.2	4.9	7.5	0.5	W272J333-J5*****
0.047	9.5	10.5	5.3	7.5	0.5	W272J473-J5*****
0.068	9.5	11.9	6.0	7.5	0.5	W272J683-J5*****
0.10	9.5	13.1	7.2	7.5	0.5	W272J104-J5*****
0.047	12.5	9.6	4.5	10.0	0.6	W272J473-K6*****
0.068	12.5	10.3	5.2	10.0	0.6	W272J683-K6*****
0.10	12.5	11.2	6.1	10.0	0.6	W272J104-K6*****
0.15	12.5	13.9	6.4	10.0	0.6	W272J154-K6*****
0.22	12.5	15.3	7.8	10.0	0.6	W272J224-K6*****
0.10	17.5	10.6	4.6	15.0	0.8	W272J104-M8*****
0.15	17.5	12.5	5.1	15.0	0.8	W272J154-M8*****
0.22	17.5	13.5	6.0	15.0	0.8	W272J224-M8*****
0.33	17.5	14.8	7.4	15.0	0.8	W272J334-M8*****
0.47	17.5	16.3	8.8	15.0	0.8	W272J474-M8*****
0.68	17.5	19.1	10.0	15.0	0.8	W272J684-M8*****
1.0	17.5	22.3	11.7	15.0	0.8	W272J105-M8*****
1.5	17.5	25.4	14.7	15.0	0.8	W272J155-M8*****
0.22	25.0	11.2	5.2	22.0	0.8	W272J224-P8*****
0.33	25.0	12.2	6.3	22.0	0.8	W272J334-P8*****
0.47	25.0	14.3	6.8	22.0	0.8	W272J474-P8*****
0.68	25.0	15.7	8.2	22.0	0.8	W272J684-P8*****
1.0	25.0	19.5	8.9	22.0	0.8	W272J105-P8*****
1.5	25.0	21.8	11.1	22.0	0.8	W272J155-P8*****
2.2	25.0	24.4	13.8	22.0	0.8	W272J225-P8*****

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

2. 第 12 位表示引线加工和包装代码, L= 直脚 straight lead K= 引线成型 Lead kinked T= 弹带包装 ammo-pc