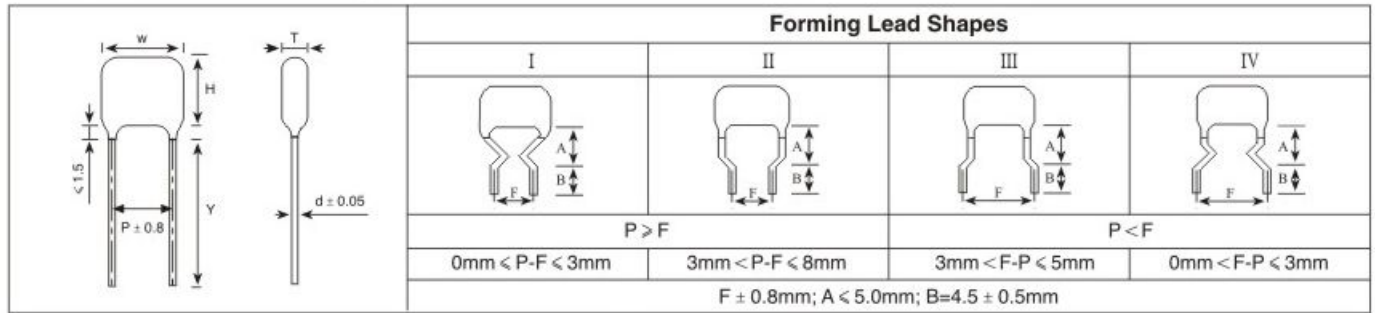


金属化聚酯膜电容器(安全膜)

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)

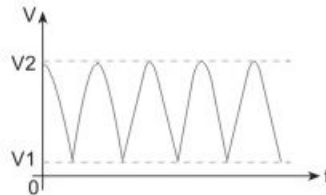
Features

- 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).

α : 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: $V_1 > 0$, $V_2 < U_R$, $V_{rms} = (V_2 - V_1) \div \sqrt{2}$, $I_{rms} = 2\pi f \times C \times (V_2 - V_1) \div \sqrt{2}$
 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℃				
工作温度范围 Operating Temperature Range	-55℃ ~ 105℃ (+85℃ to +105℃: decreasing factor 1.25% per °C for U_R)				
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	1.6 U_R (5s)				
损耗角正切 Dissipation Factor	≤ 0.8% (20℃ , 1kHz)				
绝缘电阻 Insulation Resistance	≥ 30 000MΩ, $C_N \leq 0.33\mu F$ ≥ 10 000s, $C_N > 0.33\mu F$ (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)			
		P=7.5	P=10.0	P=15.0	P=22.5
	250	80	60	50	30
	400/450	150	120	100	50
	520	200	180	150	80
630	350	300	200	100	

■ 外形尺寸 Dimensions (mm)

250Vdc					
C _N (μ F)	W max	H max	T max	P	d
0.22	10.0	9.9	4.9	7.5	0.5
0.33	10.0	10.4	5.7	7.5	0.5
0.47	10.0	11.8	6.3	7.5	0.5
0.68	10.0	13.9	6.9	7.5	0.5
1.00	10.0	15.3	8.4	7.5	0.5
0.33	12.5	9.0	5.2	10.0	0.6
0.47	12.5	10.8	5.4	10.0	0.6
0.68	12.5	11.7	6.3	10.0	0.6
1.00	12.5	14.4	7.4	10.0	0.6
1.50	12.5	16.9	8.4	10.0	0.6
2.20	12.5	19.7	9.5	10.0	0.6
0.47	17.8	9.3	4.7	15.0	0.8
0.68	17.8	10.0	5.4	15.0	0.8
1.00	17.8	12.0	6.5	15.0	0.8
1.50	17.8	14.2	7.2	15.0	0.8
2.20	17.8	16.6	8.0	15.0	0.8
3.30	17.8	19.3	9.2	15.0	0.8
4.70	17.8	21.2	11.0	15.0	0.8
1.00	25.5	10.9	5.5	22.5	0.8
1.50	25.5	12.9	5.9	22.5	0.8
2.20	25.5	13.9	6.9	22.5	0.8
3.30	25.5	16.4	7.8	22.5	0.8
4.70	25.5	18.8	8.7	22.5	0.8
6.80	25.5	20.6	10.5	22.5	0.8
10.0	25.5	23.0	12.9	22.5	0.8

400Vdc(450Vdc)					
C _N (μ F)	W max	H max	T max	P	d
0.047	10.0	7.1	4.0	7.5	0.5
0.068	10.0	8.0	4.4	7.5	0.5
0.100	10.0	9.7	5.1	7.5	0.5
0.150	10.0	10.6	6.0	7.5	0.5
0.100	12.5	9.1	4.4	10.0	0.6
0.150	12.5	9.7	5.1	10.0	0.6
0.220	12.5	11.1	5.7	10.0	0.6
0.330	12.5	13.2	6.2	10.0	0.6
0.470	12.5	15.4	6.8	10.0	0.6
0.680	12.5	16.8	8.2	10.0	0.6
1.000	12.5	19.6	9.4	10.0	0.6
0.220	17.8	10.3	4.9	15.0	0.8
0.330	17.8	11.1	5.7	15.0	0.8
0.470	17.8	13.1	6.1	15.0	0.8
0.680	17.8	15.3	6.8	15.0	0.8
1.000	17.8	17.2	8.7	15.0	0.8
1.500	17.8	20.1	10.0	15.0	0.8
2.200	17.8	22.3	12.2	15.0	0.8
0.470	25.5	11.3	5.9	22.5	0.8
0.680	25.5	13.3	6.3	22.5	0.8
1.000	25.5	14.4	7.4	22.5	0.8
1.500	25.5	16.9	8.3	22.5	0.8
2.200	25.5	19.6	9.5	22.5	0.8
3.300	25.5	21.8	11.7	22.5	0.8

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

■ 外形尺寸 Dimensions (mm)

520Vdc					
C _N (μF)	W max	H max	T max	P	d
0.022	9.8	7.5	4.0	7.5	0.5
0.033	9.8	8.5	4.4	7.5	0.5
0.047	9.8	9.6	4.7	7.5	0.5
0.068	9.8	10.4	5.4	7.5	0.5
0.068	12.5	9.6	4.7	10.0	0.6
0.100	12.5	10.9	5.5	10.0	0.6
0.150	12.5	11.9	6.5	10.0	0.6
0.220	12.5	14.1	7.1	10.0	0.6
0.330	12.5	15.6	8.6	10.0	0.6
0.100	17.8	9.4	4.7	15.0	0.8
0.150	17.8	10.2	5.5	15.0	0.8
0.220	17.8	11.6	6.1	15.0	0.8
0.330	17.8	13.7	6.7	15.0	0.8
0.470	17.8	14.9	7.9	15.0	0.8
0.680	17.8	17.5	8.9	15.0	0.8
1.000	17.8	20.9	10.7	15.0	0.8
1.500	17.8	23.4	13.2	15.0	0.8
0.330	25.5	12.4	5.4	22.5	0.8
0.470	25.5	13.3	6.3	22.5	0.8
0.680	25.5	15.5	7.0	22.5	0.8
1.000	25.5	18.5	8.4	22.5	0.8
1.500	25.5	20.4	10.3	22.5	0.8
2.200	25.5	22.6	12.5	22.5	0.8

630Vdc					
C _N (μF)	W max	H max	T max	P	d
0.010	9.8	7.6	4.1	7.5	0.5
0.015	9.8	7.6	4.1	7.5	0.5
0.022	9.8	8.1	4.6	7.5	0.5
0.033	9.8	9.2	5.1	7.5	0.5
0.047	9.8	10.5	5.5	7.5	0.5
0.068	9.8	11.9	6.2	7.5	0.5
0.100	9.8	13.1	7.7	7.5	0.5
0.047	12.5	9.6	4.6	10.0	0.6
0.068	12.5	10.3	5.3	10.0	0.6
0.100	12.5	11.2	6.5	10.0	0.6
0.150	12.5	13.9	6.9	10.0	0.6
0.220	12.5	15.3	8.3	10.0	0.6
0.100	17.8	10.6	5.1	15.0	0.8
0.150	17.8	12.5	5.5	15.0	0.8
0.220	17.8	13.5	6.5	15.0	0.8
0.330	17.8	14.8	7.8	15.0	0.8
0.470	17.8	16.3	9.2	15.0	0.8
0.680	17.8	19.1	10.4	15.0	0.8
1.000	17.8	22.8	12.6	15.0	0.8
1.500	17.8	25.8	15.6	15.0	0.8
0.220	25.5	11.2	5.7	22.5	0.8
0.330	25.5	12.2	6.7	22.5	0.8
0.470	25.5	14.3	7.3	22.5	0.8
0.680	25.5	15.7	8.7	22.5	0.8
1.000	25.5	20.0	9.8	22.5	0.8
1.500	25.5	22.2	12.1	22.5	0.8
2.200	25.5	24.9	14.8	22.5	0.8

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