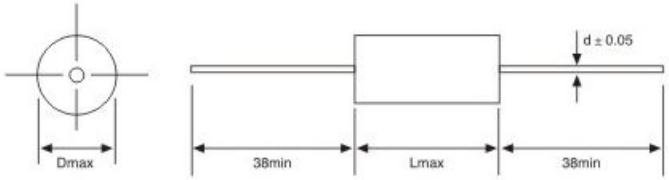
轴向金属化聚丙烯膜电容器
Metallized polypropylene film capacitor(Axial-type)

■ 外形图 Outline Drawing



■ 特点

- 金属化聚丙烯，无感卷绕结构，轴向
- 自愈性能优异
- 外包聚酯胶带纸，两端灌注阻燃性环氧树脂

■ Features

- Metalized Polypropylene film，non-inductive type ，axial
- Excellent self-healing property
- Wrapped with polyester adhesive tape and ends filled with Flame retardant epoxy resin

■ 主要用途

- 温度补偿电路
- 定时、振荡电路
- 功率因素较正，开关电源耦合用

■ Typical Application

- Temperature compensation circuits
- Timing,oscillator circuits
- Power factor correction and coupling capacitor in SMPS applications

■ 技术要求 Specifications

引用标准 Reference Standard	GB 10190(IEC 60384-16)
气候类别 Climatic Category	40/085/21
额定温度 Rated Temperature	85℃
额定电压 Rated Voltage	100/160V、250V、400V、630V、1 000V、1 250V
电容量范围 Capacitance Range	0.0010μF ~ 15μF
电容量偏差 Capacitance Tolerance	±5%(J)，±10%(K)，±20% (M)
耐电压 Voltage Proof	1.6U_R (5s)
损耗角正切 Dissipation Factor	≤ 10 × 10^{-4} (1kHz，20℃)
绝缘电阻 Insulation Resistance	≥ 100 000MΩ，C_N ≤ 0.33μF ≥ 30 000s，C_N > 0.33μF (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)						
	L=12.0	L=14.5	L=20.0	L=27.5	L=33.0	L=41.5	L=56.5
100/160	150	110	80	60	50	35	20
250	300	220	150	110	90	60	30
400	460	330	250	180	120	80	45
630	600	440	300	220	150	100	60
1 000	800	550	400	300	200	150	80
1 250	1 000	750	580	400	300	200	100
1 250	1 000	750	580	400	300	200	100

■ 外形尺寸表 Dimensions（mm）

100V(60Vac)/160Vdc(90Vac)#			
C_N (μF)	D max	L max	d
0.022	5.0	12.0	0.6
0.027	5.0	12.0	0.6
0.033	5.0	12.0	0.6
0.039	5.0	12.0	0.6
0.047	5.0	12.0	0.6
0.056	5.0	12.0	0.6
0.068	5.5	12.0	0.6
0.082	5.0	14.5	0.6
0.100	5.5	14.5	0.6
0.120	6.0	14.5	0.6
0.150	6.5	14.5	0.6
0.180	7.0	14.5	0.8
0.220	7.5	14.5	0.8
0.270	8.5	14.5	0.8
0.330	7.0	20.0	0.8
0.390	7.5	20.0	0.8
0.470	8.0	20.0	0.8
0.560	9.0	20.0	0.8
0.680	8.0	27.5	0.8
0.820	8.5	27.5	0.8
1.000	9.5	27.5	0.8
1.200	10.0	27.5	0.8
1.500	11.5	27.5	0.8
1.800	12.0	27.5	0.8
2.200	12.0	33.0	0.8
2.700	13.0	33.0	0.8
3.300	14.0	33.0	0.8
3.900	15.0	33.0	0.8
4.700	16.5	33.0	1.0
5.600	17.5	33.0	1.0
6.800	17.5	41.5	1.0
8.200	19.0	41.5	1.0
10.00	20.5	41.5	1.0
12.00	19.0	56.5	1.0
15.00	21.0	56.5	1.0

250Vdc(160Vac)			
C_N (μF)	D max	L max	d
0.010	5.0	12.0	0.6
0.012	5.0	12.0	0.6
0.015	5.0	12.0	0.6
0.018	5.0	12.0	0.6
0.022	5.0	12.0	0.6
0.027	5.0	12.0	0.6
0.033	5.5	12.0	0.6
0.039	5.0	14.5	0.6
0.047	5.5	14.5	0.6
0.056	5.5	14.5	0.6
0.068	6.0	14.5	0.6
0.082	6.5	14.5	0.6
0.100	7.0	14.5	0.8
0.120	7.5	14.5	0.8
0.150	8.0	14.5	0.8
0.180	8.5	14.5	0.8
0.220	7.5	20.0	0.8
0.270	8.0	20.0	0.8
0.330	9.0	20.0	0.8
0.390	9.5	20.0	0.8
0.470	8.5	27.5	0.8
0.560	9.0	27.5	0.8
0.680	10.0	27.5	0.8
0.820	10.5	27.5	0.8
1.000	12.0	27.5	0.8
1.200	12.5	27.5	0.8
1.500	12.5	33.0	0.8
1.800	13.5	33.0	0.8
2.200	14.5	33.0	0.8
2.700	16.0	33.0	1.0
3.300	17.5	33.0	1.0
3.900	18.5	33.0	1.0
4.700	18.0	41.5	1.0
5.600	19.5	41.5	1.0
6.800	21.5	41.5	1.0
8.200	23.0	41.5	1.0
10.00	21.5	56.5	1.0
12.00	23.5	56.5	1.0
15.00	25.5	56.5	1.0

400Vdc(200Vac)			
C_N (μF)	D max	L max	d
0.0068	5.0	12.0	0.6
0.0082	5.0	12.0	0.6
0.0100	5.0	12.0	0.6
0.0120	5.0	12.0	0.6
0.0150	5.0	12.0	0.6
0.0180	5.5	12.0	0.6
0.0220	5.5	12.0	0.6
0.0270	5.0	14.5	0.6
0.0330	5.5	14.5	0.6
0.0390	6.0	14.5	0.6
0.0470	6.5	14.5	0.6
0.0560	6.5	14.5	0.6
0.0680	7.0	14.5	0.8
0.0820	7.5	14.5	0.8
0.1000	7.0	20.0	0.8
0.1200	7.5	20.0	0.8
0.1500	8.0	20.0	0.8
0.1800	8.5	20.0	0.8
0.2200	9.0	20.0	0.8
0.2700	10.0	20.0	0.8
0.3300	9.0	27.5	0.8
0.3900	9.5	27.5	0.8
0.4700	10.0	27.5	0.8
0.5600	10.5	27.5	0.8
0.6800	12.0	27.5	0.8
0.8200	13.0	27.5	0.8
1.0000	12.5	33.0	0.8
1.2000	13.5	33.0	0.8
1.5000	15.0	33.0	0.8
1.8000	16.0	33.0	1.0
2.2000	17.5	33.0	1.0
2.7000	19.0	33.0	1.0
3.3000	18.5	41.5	1.0
3.9000	20.0	41.5	1.0
4.7000	21.5	41.5	1.0
5.6000	23.5	41.5	1.0
6.8000	21.5	56.5	1.0
8.2000	23.5	56.5	1.0
10.000	25.5	56.5	1.0

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

■ 外形尺寸表 Dimensions（mm）

630Vdc(220Vac)@			
C_N (μF)	D max	L max	d
0.0010	5.0	12.0	0.6
0.0012	5.0	12.0	0.6
0.0015	5.0	12.0	0.6
0.0018	5.0	12.0	0.6
0.0022	5.0	12.0	0.6
0.0027	5.0	12.0	0.6
0.0033	5.0	12.0	0.6
0.0039	5.0	12.0	0.6
0.0047	5.0	12.0	0.6
0.0056	5.0	12.0	0.6
0.0068	5.5	12.0	0.6
0.0082	5.0	14.5	0.6
0.0100	5.5	14.5	0.6
0.0120	5.5	14.5	0.6
0.0150	6.0	14.5	0.6
0.0180	6.5	14.5	0.6
0.0220	7.0	14.5	0.8
0.0270	7.5	14.5	0.8
0.0330	7.0	20.0	0.8
0.0390	7.5	20.0	0.8
0.0470	8.0	20.0	0.8
0.0560	8.5	20.0	0.8
0.0680	9.0	20.0	0.8
0.0820	9.5	20.0	0.8
0.1000	8.5	27.5	0.8
0.1200	9.0	27.5	0.8
0.1500	10.0	27.5	0.8
0.1800	10.5	27.5	0.8
0.2200	12.0	27.5	0.8
0.2700	13.0	27.5	0.8
0.3300	12.5	33.0	0.8
0.3900	13.5	33.0	0.8
0.4700	14.5	33.0	0.8
0.5600	15.5	33.0	0.8
0.6800	17.0	33.0	1.0
0.8200	18.0	33.0	1.0
1.0000	17.5	41.5	1.0
1.2000	19.0	41.5	1.0
1.5000	21.0	41.5	1.0
1.8000	22.5	41.5	1.0
2.2000	24.5	41.5	1.0
2.7000	23.0	56.5	1.0
3.3000	25.0	56.5	1.0

1 000Vdc(350Vac)			
C_N (μF)	D max	L max	d
0.0010	5.0	12.0	0.6
0.0012	5.0	12.0	0.6
0.0015	5.0	12.0	0.6
0.0018	5.5	12.0	0.6
0.0022	6.0	12.0	0.6
0.0027	6.0	12.0	0.6
0.0033	6.5	12.0	0.6
0.0039	5.5	14.5	0.6
0.0047	5.5	14.5	0.6
0.0056	6.5	14.5	0.6
0.0068	6.5	14.5	0.6
0.0082	7.0	14.5	0.8
0.0100	7.5	14.5	0.8
0.0120	8.0	14.5	0.8
0.0150	8.5	14.5	0.8
0.0180	7.5	20.0	0.8
0.0220	8.0	20.0	0.8
0.0270	8.5	20.0	0.8
0.0330	9.0	20.0	0.8
0.0390	10.0	20.0	0.8
0.0470	10.5	20.0	0.8
0.0560	9.0	27.5	0.8
0.0680	9.5	27.5	0.8
0.0820	10.5	27.5	0.8
0.1000	11.5	27.5	0.8
0.1200	12.0	27.5	0.8
0.1500	12.0	33.0	0.8
0.1800	13.0	33.0	0.8
0.2200	14.0	33.0	0.8
0.2700	15.0	33.0	0.8
0.3300	16.5	33.0	1.0
0.3900	18.0	33.0	1.0
0.4700	17.5	41.5	1.0
0.5600	19.0	41.5	1.0
0.6800	20.5	41.5	1.0
0.8200	22.0	41.5	1.0
1.0000	20.5	56.5	1.0
1.2000	22.0	56.5	1.0
1.5000	24.5	56.5	1.0

1 250Vdc(400Vac)			
C_N (μF)	D max	L max	d
0.0010	5.0	12.0	0.6
0.0012	5.5	12.0	0.6
0.0015	5.5	12.0	0.6
0.0018	6.0	12.0	0.6
0.0022	6.5	12.0	0.6
0.0027	5.5	14.5	0.6
0.0033	6.0	14.5	0.6
0.0039	6.0	14.5	0.6
0.0047	6.5	14.5	0.6
0.0056	7.0	14.5	0.8
0.0068	7.5	14.5	0.8
0.0082	8.0	14.5	0.8
0.0100	8.5	14.5	0.8
0.0120	7.0	20.0	0.8
0.0150	7.5	20.0	0.8
0.0180	8.0	20.0	0.8
0.0220	8.5	20.0	0.8
0.0270	9.5	20.0	0.8
0.0330	10.5	20.0	0.8
0.0390	9.0	27.5	0.8
0.0470	9.5	27.5	0.8
0.0560	10.0	27.5	0.8
0.0680	11.0	27.5	0.8
0.0820	12.0	27.5	0.8
0.1000	13.0	27.5	0.8
0.1200	12.5	33.0	0.8
0.1500	13.5	33.0	0.8
0.1800	14.5	33.0	0.8
0.2200	16.0	33.0	1.0
0.2700	17.0	33.0	1.0
0.3300	17.0	41.5	1.0
0.3900	18.0	41.5	1.0
0.4700	19.5	41.5	1.0
0.5600	21.0	41.5	1.0
0.6800	20.0	56.5	1.0
0.8200	21.5	56.5	1.0
1.0000	23.0	56.5	1.0
1.2000	25.0	56.5	1.0
1.5000	27.5	56.5	1.0

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