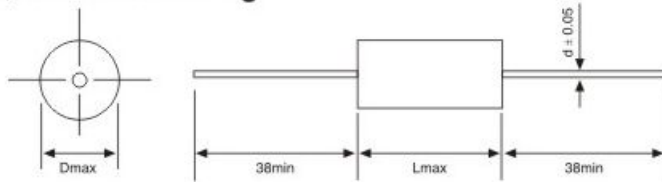


# 轴向金属化聚酯膜电容器

## 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)

### ■ 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 application

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

### ■ 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℃<br>(+85℃ to +105℃: decreasing factor 1.25% per °C for $U_R$ ) |  |        |        |        |        |
| 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   | 1.6 $U_R$ ( 5s )  |  |        |        |        |        |
| 损耗角正切 Dissipation Factor  | ≤ 1.0% ( 20℃ ,1kHz )  |  |        |        |        |        |
| 绝缘电阻 Insulation Resistance  | $U_R \leq 100V$   | ≥ 3 750MΩ, $C_N \leq 0.33\mu F$ (20℃ ,10V, 1min)<br>≥ 1 250s, $C_N > 0.33\mu F$    |        |        |        |        |
|   | $U_R > 100V$  | ≥ 30 000MΩ, $C_N \leq 0.33\mu F$ (20℃ , 100V,1min)<br>≥ 10 000s, $C_N > 0.33\mu F$ |        |        |        |        |
| 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 $U_R/U$ 。<br>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 |
|   | 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      |        |

■ 外形尺寸 Dimensions ( mm )

| 50Vdc (30Vac)/63Vdc (40Vac) <sup>g</sup> |          |          |     |
|--|----------|----------|-----|
| C <sub>N</sub><br>( $\mu$ F)             | D<br>max | L<br>max | d   |
| 0.33                                     | 5.2      | 12.0     | 0.6 |
| 0.39                                     | 5.5      | 12.0     | 0.6 |
| 0.47                                     | 5.5      | 14.5     | 0.6 |
| 0.56                                     | 6.0      | 14.5     | 0.6 |
| 0.68                                     | 6.0      | 14.5     | 0.6 |
| 0.82                                     | 6.5      | 14.5     | 0.6 |
| 1.00                                     | 7.0      | 14.5     | 0.8 |
| 1.20                                     | 7.0      | 14.5     | 0.8 |
| 1.50                                     | 6.7      | 20.0     | 0.8 |
| 1.80                                     | 7.0      | 20.0     | 0.8 |
| 2.20                                     | 7.5      | 20.0     | 0.8 |
| 2.70                                     | 8.5      | 20.0     | 0.8 |
| 3.30                                     | 9.0      | 20.0     | 0.8 |
| 3.90                                     | 9.5      | 20.0     | 0.8 |
| 4.70                                     | 8.5      | 27.5     | 0.8 |
| 5.60                                     | 9.0      | 27.5     | 0.8 |
| 6.80                                     | 10.0     | 27.5     | 0.8 |
| 8.20                                     | 10.5     | 27.5     | 0.8 |
| 10.0                                     | 11.0     | 33.0     | 0.8 |

| 100Vdc (63Vac)               |          |          |     |
|------------------------------|----------|----------|-----|
| C <sub>N</sub><br>( $\mu$ F) | D<br>max | L<br>max | d   |
| 0.068                        | 5.2      | 12.0     | 0.6 |
| 0.082                        | 5.2      | 12.0     | 0.6 |
| 0.100                        | 5.2      | 12.0     | 0.6 |
| 0.120                        | 5.2      | 12.0     | 0.6 |
| 0.150                        | 5.2      | 12.0     | 0.6 |
| 0.180                        | 5.2      | 12.0     | 0.6 |
| 0.220                        | 5.2      | 12.0     | 0.6 |
| 0.270                        | 5.2      | 12.0     | 0.6 |
| 0.330                        | 6.0      | 14.5     | 0.6 |
| 0.390                        | 6.0      | 14.5     | 0.6 |
| 0.470                        | 6.0      | 14.5     | 0.6 |
| 0.560                        | 6.0      | 14.5     | 0.6 |
| 0.680                        | 6.8      | 14.5     | 0.8 |
| 0.820                        | 7.0      | 14.5     | 0.8 |
| 1.000                        | 7.7      | 20.0     | 0.8 |
| 1.200                        | 7.0      | 20.0     | 0.8 |
| 1.500                        | 8.0      | 20.0     | 0.8 |
| 1.800                        | 8.5      | 20.0     | 0.8 |
| 2.200                        | 9.0      | 20.0     | 0.8 |
| 2.700                        | 9.5      | 20.0     | 0.8 |
| 3.300                        | 9.5      | 27.5     | 0.8 |
| 3.900                        | 9.5      | 27.5     | 0.8 |
| 4.700                        | 10.0     | 33.0     | 0.8 |
| 5.600                        | 10.5     | 33.0     | 0.8 |
| 6.800                        | 11.5     | 33.0     | 0.8 |
| 8.200                        | 12.5     | 33.0     | 0.8 |
| 10.00                        | 13.5     | 33.0     | 0.8 |

| 250Vdc(160Vac)               |          |          |     |
|------------------------------|----------|----------|-----|
| C <sub>N</sub><br>( $\mu$ F) | D<br>max | L<br>max | d   |
| 0.047                        | 5.2      | 12.0     | 0.6 |
| 0.056                        | 5.2      | 12.0     | 0.6 |
| 0.068                        | 5.2      | 12.0     | 0.6 |
| 0.082                        | 5.2      | 12.0     | 0.6 |
| 0.100                        | 5.5      | 14.5     | 0.6 |
| 0.120                        | 5.5      | 14.5     | 0.6 |
| 0.150                        | 5.5      | 14.5     | 0.6 |
| 0.180                        | 5.5      | 14.5     | 0.6 |
| 0.220                        | 6.0      | 14.5     | 0.6 |
| 0.270                        | 6.5      | 14.5     | 0.6 |
| 0.330                        | 6.5      | 20.0     | 0.6 |
| 0.390                        | 6.5      | 20.0     | 0.6 |
| 0.470                        | 7.0      | 20.0     | 0.8 |
| 0.560                        | 7.5      | 20.0     | 0.8 |
| 0.680                        | 8.0      | 20.0     | 0.8 |
| 0.820                        | 8.5      | 20.0     | 0.8 |
| 1.000                        | 9.0      | 20.0     | 0.8 |
| 1.200                        | 8.5      | 27.5     | 0.8 |
| 1.500                        | 9.0      | 27.5     | 0.8 |
| 1.800                        | 9.5      | 27.5     | 0.8 |
| 2.200                        | 11.0     | 33.0     | 0.8 |
| 2.700                        | 12.0     | 33.0     | 0.8 |
| 3.300                        | 13.0     | 33.0     | 0.8 |
| 3.900                        | 14.5     | 33.0     | 0.8 |
| 4.700                        | 15.5     | 33.0     | 0.8 |
| 5.600                        | 16.5     | 33.0     | 1.0 |
| 6.800                        | 18.5     | 33.0     | 1.0 |
| 8.200                        | 20.0     | 33.0     | 1.0 |
| 10.00                        | 22.0     | 33.0     | 1.0 |

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

■ 外形尺寸 Dimensions ( mm )

| 400Vdc(200Vac)         |          |          |     |
|------------------------|----------|----------|-----|
| C <sub>N</sub><br>(μF) | D<br>max | L<br>max | d   |
| 0.010                  | 5.2      | 12.0     | 0.6 |
| 0.012                  | 5.2      | 12.0     | 0.6 |
| 0.015                  | 5.2      | 12.0     | 0.6 |
| 0.018                  | 5.2      | 12.0     | 0.6 |
| 0.022                  | 5.2      | 12.0     | 0.6 |
| 0.027                  | 5.2      | 12.0     | 0.6 |
| 0.033                  | 5.2      | 12.0     | 0.6 |
| 0.039                  | 5.2      | 14.5     | 0.6 |
| 0.047                  | 6.5      | 14.5     | 0.6 |
| 0.056                  | 6.5      | 14.5     | 0.6 |
| 0.068                  | 6.5      | 14.5     | 0.6 |
| 0.082                  | 7.0      | 14.5     | 0.8 |
| 0.10                   | 7.5      | 14.5     | 0.8 |
| 0.12                   | 8.0      | 14.5     | 0.8 |
| 0.15                   | 7.0      | 20.0     | 0.6 |
| 0.18                   | 7.0      | 20.0     | 0.8 |
| 0.22                   | 7.5      | 20.0     | 0.8 |
| 0.27                   | 8.0      | 20.0     | 0.8 |
| 0.33                   | 9.0      | 20.0     | 0.8 |
| 0.39                   | 9.5      | 20.0     | 0.8 |
| 0.47                   | 8.5      | 27.5     | 0.8 |
| 0.56                   | 9.0      | 27.5     | 0.8 |
| 0.68                   | 10.0     | 27.5     | 0.8 |
| 0.82                   | 10.5     | 27.5     | 0.8 |
| 1.00                   | 10.5     | 33.0     | 0.8 |
| 1.20                   | 11.5     | 33.0     | 0.8 |
| 1.50                   | 12.5     | 33.0     | 0.8 |
| 1.80                   | 13.5     | 33.0     | 0.8 |
| 2.20                   | 14.5     | 33.0     | 0.8 |
| 2.70                   | 16.0     | 33.0     | 1.0 |
| 3.30                   | 17.5     | 33.0     | 1.0 |

| 630Vdc(220Vac) <sup>®</sup> |          |          |     |
|-----------------------------|----------|----------|-----|
| C <sub>N</sub><br>(μF)      | D<br>max | L<br>max | d   |
| 0.0010                      | 5.2      | 12.0     | 0.6 |
| 0.0012                      | 5.2      | 12.0     | 0.6 |
| 0.0015                      | 5.2      | 12.0     | 0.6 |
| 0.0018                      | 5.2      | 12.0     | 0.6 |
| 0.0022                      | 5.2      | 12.0     | 0.6 |
| 0.0027                      | 5.2      | 12.0     | 0.6 |
| 0.0033                      | 5.2      | 12.0     | 0.6 |
| 0.0039                      | 5.2      | 12.0     | 0.6 |
| 0.0047                      | 5.2      | 12.0     | 0.6 |
| 0.0056                      | 5.2      | 12.0     | 0.6 |
| 0.0068                      | 6.0      | 12.0     | 0.6 |
| 0.0082                      | 6.0      | 12.0     | 0.6 |
| 0.010                       | 6.0      | 14.5     | 0.6 |
| 0.012                       | 6.0      | 14.5     | 0.6 |
| 0.015                       | 6.5      | 14.5     | 0.6 |
| 0.018                       | 7.0      | 14.5     | 0.8 |
| 0.022                       | 7.5      | 14.5     | 0.8 |
| 0.027                       | 8.0      | 14.5     | 0.8 |
| 0.033                       | 7.0      | 20.0     | 0.8 |
| 0.039                       | 7.5      | 20.0     | 0.8 |
| 0.047                       | 7.5      | 20.0     | 0.8 |
| 0.056                       | 8.0      | 20.0     | 0.8 |
| 0.068                       | 8.5      | 20.0     | 0.8 |
| 0.082                       | 9.0      | 20.0     | 0.8 |
| 0.100                       | 8.0      | 27.5     | 0.8 |
| 0.120                       | 8.5      | 27.5     | 0.8 |
| 0.150                       | 9.0      | 27.5     | 0.8 |
| 0.180                       | 10.0     | 27.5     | 0.8 |
| 0.220                       | 10.5     | 27.5     | 0.8 |
| 0.270                       | 11.5     | 27.5     | 0.8 |
| 0.330                       | 11.0     | 33.0     | 0.8 |
| 0.390                       | 12.0     | 33.0     | 0.8 |
| 0.470                       | 12.5     | 33.0     | 0.8 |
| 0.560                       | 13.5     | 33.0     | 0.8 |
| 0.680                       | 14.5     | 33.0     | 0.8 |
| 0.820                       | 16.0     | 33.0     | 1.0 |
| 1.000                       | 17.5     | 33.0     | 1.0 |

| 1 000Vdc(250Vac) <sup>®</sup> |          |          |     |
|-------------------------------|----------|----------|-----|
| C <sub>N</sub><br>(μF)        | D<br>max | L<br>max | d   |
| 0.0010                        | 5.2      | 12.0     | 0.6 |
| 0.0012                        | 5.2      | 12.0     | 0.6 |
| 0.0015                        | 5.2      | 12.0     | 0.6 |
| 0.0018                        | 5.2      | 12.0     | 0.6 |
| 0.0022                        | 5.2      | 12.0     | 0.6 |
| 0.0027                        | 5.2      | 12.0     | 0.6 |
| 0.0033                        | 5.2      | 12.0     | 0.6 |
| 0.0039                        | 5.2      | 12.0     | 0.6 |
| 0.0047                        | 5.2      | 14.5     | 0.6 |
| 0.0056                        | 5.2      | 14.5     | 0.6 |
| 0.0068                        | 5.2      | 14.5     | 0.6 |
| 0.0082                        | 6.0      | 14.5     | 0.6 |
| 0.010                         | 6.0      | 20.0     | 0.6 |
| 0.012                         | 6.0      | 20.0     | 0.6 |
| 0.015                         | 6.5      | 20.0     | 0.6 |
| 0.018                         | 6.5      | 20.0     | 0.6 |
| 0.022                         | 7.0      | 20.0     | 0.8 |
| 0.027                         | 7.5      | 20.0     | 0.8 |
| 0.033                         | 6.5      | 27.5     | 0.6 |
| 0.039                         | 6.5      | 27.5     | 0.6 |
| 0.047                         | 7.0      | 27.5     | 0.8 |
| 0.056                         | 7.5      | 27.5     | 0.8 |
| 0.068                         | 8.0      | 27.5     | 0.8 |
| 0.082                         | 8.5      | 27.5     | 0.8 |
| 0.100                         | 9.0      | 27.5     | 0.8 |
| 0.120                         | 9.5      | 27.5     | 0.8 |
| 0.150                         | 9.5      | 33.0     | 0.8 |
| 0.180                         | 10.0     | 33.0     | 0.8 |
| 0.220                         | 11.0     | 33.0     | 0.8 |
| 0.270                         | 12.0     | 33.0     | 0.8 |
| 0.330                         | 13.0     | 33.0     | 0.8 |
| 0.390                         | 14.0     | 33.0     | 0.8 |
| 0.470                         | 15.0     | 33.0     | 0.8 |

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