

# 中高压陶瓷电容器-HV 系列

## (500VDC-6.3KVDC) 规格书

### 特点

- 电容器容量范围从 100pF 到 100000pF。
- 工作温度:  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- 储存温度:  $15^{\circ}\text{C} \sim 35^{\circ}\text{C}$
- 中、高压陶瓷电容器具有耐直流高压的特点。

### 用途

- 适用于高压旁路和耦合电路中，其中的低损耗高压圆片瓷介电容器具有较低的介质损耗，特别适合在电视接收面的行扫描等电路中使用。

## 料号编码原则

|   |    |   |   |   |     |   |    |   |   |   |   |   |   |
|---|----|---|---|---|-----|---|----|---|---|---|---|---|---|
| N | 07 | F | 1 | B | 472 | M | N0 | B | 0 | S | 0 | N | 0 |
|---|----|---|---|---|-----|---|----|---|---|---|---|---|---|

**额定电压**  
 L: 500VDC  
 N: 1KVDC  
 R: 2KVDC  
 S: 3KVDC  
 T: 4KVDC  
 W: 5KVDC  
 A: 6KVDC

**成品直径**  
 04: 4.0mm  
 05: 5.0mm  
 16: 16.0mm  
 C0: 5.0mm  
 C4: 5.4mm  
 C6: 5.6mm

**温度系数**  
 A:NP0  
 S:SL  
 B:Y5P  
 E:Y5U  
 F:Y5V

**脚距**  
 A:2.5mm  
 B:5.0mm  
 E:7.5mm  
 D:10.0mm

**标称容量**  
 10:100pF  
 100:101pF  
 222:2200pF  
 103:10000pF

**脚型**  
 1:长直脚脚型  
 2:单外弯脚型  
 3:短直脚脚型  
 4:内弯脚型  
 8:前后翘脚型

**精度**  
 C:±0.25pF  
 J±5%  
 :K:±10%  
 M:±20%

**包装方式**  
 B: 散件  
 T: 编带

**内部管理码**

**环保类型**  
 0:RoHS  
 2:RoHS+无卤

**脚长**  
 S0~S9:1.0~1.9mm  
 X0~X9:2.0~2.9mm  
 A0~A9:3.0~3.9mm  
 B0~B9:4.0~4.9mm  
 C0~C9:5.0~5.9mm  
 D0~D9:6.0~6.9mm  
 E0~E9:7.0~7.9mm

**脚长**  
 F0~F9:8.0~8.9mm  
 G0~G9:9.0~9.9mm  
 H0~H9:10.0~10.9mm  
 J0~J9:11.0~11.9mm  
 K0~K9:12.0~12.9mm  
 L0~L9:13.0~13.9mm  
 M0~M9:14.0~14.9mm

**脚长**  
 M0~M9:14.0~14.9mm  
 N0:16~27.0mm(散件)  
 N0:H0=16.5(编带)  
 编带  
 P0:17.0mm (弯脚)  
 Q0:19.0mm (弯脚)  
 Q0:20.0mm (直脚)

## 技术要求

|                   |   |
|-------------------|---|
| 电容量 (C) 和介质损耗测试条件 | SL/NP0:25℃、1±0.1MHz、1.0Vrms<br>Y5P/Y5U/Y5V:25℃、1±0.1MHz、1.0Vrms |
| 介质损耗              | SL/NP0:≤0.15%<br>Y5P/Y5U/Y5V:≤2.5%                              |
| 额定电压              | 500VDC、1000VDC、2000VDC、3000VDC、4000VDC、5000VDC、6000VDC          |
| 耐电压               | 1.5U <sub>R</sub> +500V(DC)                                     |
| 绝缘电阻              | SL/NP0:IR≥10000MΩ;Y5P/Y5U/Y5V:IR≥4000MΩ                         |
| 温度特性              | SL、NP0、Y5P、Y5U、Y5V  |

## 外形尺寸 (mm)



| 额定电压 (VDC) | 电容温度特性组别     |           |             |        |        | 产品尺寸 (mm) |         | 引线尺寸 (mm) |        |         |     |
|------------|--------------|-----------|-------------|--------|--------|-----------|---------|-----------|--------|---------|-----|
|            | Y5P (B)      | Y5U (E)   | Y5V (F)     | SL     | NP0    | D±1       | T±1     | F         | d±0.05 |         |     |
|            | 标称电容器范围 (pF) |           |             |        |        |           |         |           |        |         |     |
| 500        | 100-1500     | 1500-2200 | 3300-4700   | 20-100 | 0.5-22 | 5.5       | 2.0     | 5.0±0.8   | 0.5    |         |     |
|            | /            | 3300-4700 | 6800        | /      | /      | 6.5       |         |           |        |         |     |
|            | 2200         | 5600-6800 | 6800-10000  | /      | /      | 7.5       |         |           |        |         |     |
|            | 3300         | 10000     | /           | /      | /      | 9.5       |         |           |        |         |     |
|            | 4700         | /         | 20000-22000 | /      | /      | 10.5      | 2.5     | 7.5±0.8   | 0.6    |         |     |
|            | 10000        | /         | /           | /      | /      | 14.5      |         |           |        |         |     |
|            | /            | /         | 47000       | /      | /      | 17.0      |         |           |        |         |     |
|            | /            | /         | 100000      | /      | /      | 20.0      |         |           |        |         |     |
| 1000       | 100-820      | /         | /           | 20-100 | 0.5-22 | 5.5       | 2.5     | 5.0±0.8   | 0.5    |         |     |
|            | 1000         | /         | /           | /      | /      | 6.0       |         |           |        |         |     |
|            | /            | 1500-3300 | 4700-6800   | /      | /      | 6.5       |         |           |        |         |     |
|            | 1500-1800    | 4700-5600 | /           | /      | /      | 7.5       |         |           |        |         |     |
|            | 2200-2700    | /         | 10000       | /      | /      | 8.5       |         |           |        |         |     |
|            | /            | 6800      | 15000       | /      | /      | 9.5       |         |           |        |         |     |
|            | 3300         | 10000     | /           | /      | /      | 10.5      |         |           |        |         |     |
|            | 4700         | /         | /           | /      | /      | 11.5      |         |           |        |         |     |
|            | /            | /         | 20000-22000 | /      | /      | 13.0      |         |           |        | 7.5±0.8 | 0.6 |
|            | /            | /         | 33000       | /      | /      | 15.0      |         |           |        |         |     |
|            | 10000        | /         | 47000       | /      | /      | 17.5      |         |           |        |         |     |
|            | /            | /         | 100000      | /      | /      | 22.5      |         |           |        |         |     |
| 2000       | 100-470      | 1000      | 1500-2200   | /      | /      | 6.0       | 2.5/3.0 | 5.0±0.8   | 0.5    |         |     |
|            | 560-820      | /         | 3300        | 10-120 | 0.5-10 | 7.0       |         |           |        |         |     |
|            | 1000         | 2200      | 4700        | /      | /      | 8.0       | 3.0     | 7.5±0.8   | 0.6    |         |     |
|            | 1500         | 4700      | 6800        | /      | /      | 10.0      |         |           |        |         |     |
|            | 1800-2200    | /         | 10000       | /      | /      | 11.0      |         |           |        |         |     |
|            | 2700         | /         | /           | /      | /      | 12.0      |         |           |        |         |     |
|            | 3300         | /         | /           | /      | /      | 13.0      |         |           |        |         |     |
|            | 4700         | 10000     | 20000-22000 | /      | /      | 14.5      |         |           |        |         |     |

| 额定电压 (VDC) | 电容温度特性组别     |          |             |       |      | 产品尺寸 (mm) |         | 引线尺寸 (mm) |          |
|------------|--------------|----------|-------------|-------|------|-----------|---------|-----------|----------|
|            | Y5P (B)      | Y5U (E)  | Y5V (F)     | SL    | NPO  | D±1       | T±1     | F         | d±0.05   |
|            | 标称电容器范围 (pF) |          |             |       |      |           |         |           |          |
| 3000       | 100-470      | 680-1000 | 1500        | 27-68 | 3-22 | 6.0       | 3.0/3.5 | 7.5±0.8   | 0.6      |
|            | 270-680      | /        | 2200        | /     | /    | 7.0       | 3.5     |           |          |
|            | /            | 1500     | 3300        | 82    | /    | 8.0       |         |           |          |
|            | 1000         | 2200     | 4700        | /     | /    | 9.0       |         |           |          |
|            | /            | 3300     | 6800-10000  | /     | /    | 11.0      |         | 10.0±0.8  | 0.6/0.7  |
|            | /            | 4700     | 10000       | /     | /    | 13.0      |         |           |          |
|            | /            | 10000    | /           | /     | /    | 17.5      |         |           |          |
|            | /            | /        | 20000-22000 | /     | /    | 20.5      |         |           |          |
| 4000       | 100-470      | 680-1000 | 1500        | 27-68 | 3-22 | 6.0       | 3.0/3.5 | 7.5±0.8   | 0.6      |
|            | 270-680      | /        | 2200        | /     | /    | 7.0       | 3.5     |           |          |
|            | /            | 1500     | 3300        | 82    | /    | 8.0       |         |           |          |
|            | 1000         | 2200     | 4700        | /     | /    | 9.0       |         |           |          |
|            | /            | 3300     | 6800-10000  | /     | /    | 11.0      |         | 10.0±0.8  | 0.6/0.7  |
|            | /            | 4700     | 10000       | /     | /    | 13.0      |         |           |          |
|            | /            | 10000    | /           | /     | /    | 17.5      |         |           |          |
|            | /            | /        | 20000-22000 | /     | /    | 20.5      |         |           |          |
| 5000       | 100-220      | 330-470  | 1000        | /     | /    | 6.0       | 3.5/4.5 | 10.0±0.8  | 0.6/0.7  |
|            | 330          | 560-1000 | 1500        | /     | /    | 7.0       | 4.5     |           |          |
|            | 470          | /        | 2200        | /     | /    | 8.0       |         |           |          |
|            | 560-680      | 1500     | /           | /     | /    | 9.0       |         |           |          |
|            | /            | 2200     | 3300        | /     | /    | 10.0      |         |           |          |
|            | 1000         | /        | 4700        | /     | /    | 11.0      |         |           |          |
|            | /            | 3300     | /           | /     | /    | 13.5      |         |           |          |
|            | /            | 4700     | /           | /     | /    | 16.5      |         |           |          |
| 6000       | 100-220      | 330-470  | 1000        | /     | /    | 6.0       |         | 3.5/4.5   | 10.0±0.8 |
|            | 330          | 560-1000 | 1500        | /     | /    | 7.0       | 4.5     |           |          |
|            | 470          | /        | 2200        | /     | /    | 8.0       |         |           |          |
|            | 560-680      | 1500     | /           | /     | /    | 9.0       |         |           |          |
|            | /            | 2200     | 3300        | /     | /    | 10.0      |         |           |          |
|            | 1000         | /        | 4700        | /     | /    | 11.0      |         |           |          |
|            | /            | 3300     | /           | /     | /    | 13.5      |         |           |          |
|            | /            | 4700     | /           | /     | /    | 16.5      |         |           |          |

## 脚型、脚长说明

| 脚型    | 图示  | 脚长 L (mm)  | 包封脚长 C (mm)  |
|-------|---|--|--|
| 长直脚脚型 |    | 16.0 min   | ① C ≤ 2.5mm<br>(成品直径 < 12mm)<br><br>② C ≤ 3.0mm<br>(成品直径 ≥ 12mm) |
| 短直脚脚型 |    | ① [2.5 ≤ L < 6.0] ± 0.5;<br>② [6.0 ≤ L ≤ 10] ± 1.0 | ① C ≤ 2.5mm<br>(成品直径 < 12mm)<br><br>② C ≤ 3.0mm<br>(成品直径 ≥ 12mm) |
| 单外弯脚型 |   | ① [2.5 ≤ L < 6.0] ± 0.5;<br>② [6.0 ≤ L ≤ 10] ± 1.0 | 包封脚不超过弯点   |
| 内弯脚型  |  | ① [2.5 ≤ L < 6.0] ± 0.5;<br>② [6.0 ≤ L ≤ 10] ± 1.0 | 包封脚不超过弯点   |
| 前后翘脚型 |  | ① [2.5 ≤ L < 6.0] ± 0.5;<br>② [6.0 ≤ L ≤ 10] ± 1.0 | 包封脚不超过弯点   |

## 编带尺寸 (mm)

| 图示   | Fig.1              |                             | Fig.2                       |                             |            |             |            |
|--|--------------------|-----------------------------|-----------------------------|-----------------------------|------------|-------------|------------|
|  | 代码                 | P=5.0                       | P=7.5                       |                             | P=10.0     |             |            |
|    | Po                 | 12.7±0.3                    | 12.7±0.3                    | 12.7±0.3                    |            |             |            |
|  | P                  | 12.7±1.0                    | 25.4±1.0                    | 25.4±1.0                    |            |             |            |
|  | P1                 | 3.85±0.7                    | 8.95±0.7                    | 7.7±0.7                     |            |             |            |
|  | P2                 | 6.35±1.3                    | 12.7±1.3                    | 12.7±1.3                    |            |             |            |
|  | F                  | 5±0.8                       | 7.5±0.8                     | 10.0±0.8                    |            |             |            |
|  | Δh                 | 0±2.0                       | 0±2.0                       | 0±2.0                       |            |             |            |
|  | W                  | 18.0+1.5/-1.0               | 18.0 +1.5/-1.0              | 18.0 +1.5/-1.0              |            |             |            |
|  | Wo                 | 10.5 Max                    | 10.5 Max                    | 10.5 Max                    |            |             |            |
|  | W1                 | 9.0+0.75/-0.5               | 9.0+0.75/-0.5               | 9.0+0.75/-0.5               |            |             |            |
|  | W2                 | 3.0 Max                     | 3.0 Max                     | 3.0 Max                     |            |             |            |
|  | Do                 | 4.0±0.2                     | 4.0±0.2                     | 4.0±0.2                     |            |             |            |
|  | H                  | 20+1.5/-1.0                 | 20+1.5/-1.0                 | 20+1.5/-1.0                 |            |             |            |
|  | Ho                 | 16.5&17.0&19.0<br>+1.5/-1.0 | 16.5&17.0&19.0<br>+1.5/-1.0 | 16.5&17.0&19.0<br>+1.5/-1.0 |            |             |            |
|  | L                  | 直脚<br>脚型                    | 弯脚<br>脚型                    | 直脚<br>脚型                    | 弯脚<br>脚型   | 直脚<br>脚型    | 弯脚<br>脚型   |
|  |                    | 11.0<br>Max                 | 9.0<br>Max                  | 11.0<br>Max                 | 9.0<br>Max | 11.0<br>Max | 9.0<br>Max |
|  | t1                 | 0.5±0.2                     | 0.5±0.2                     | 0.5±0.2                     |            |             |            |
|  | Fig.2 (P=7.5 & 10) | t2                          | 1.7 Max                     | 1.7 Max                     | 1.7 Max    |             |            |

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