

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
C: 3.15KVDC
Z: 3.5KVDC
T: 4KVDC
W: 5KVDC
A: 6KVDC
Y: 6.3KVDC

脚距

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

精度

C: $\pm 0.25\text{pF}$
J: $\pm 5\%$
:K: $\pm 10\%$
M: $\pm 20\%$
Z: $-20/+80\%$

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

标称容量

10: 100pF
100: 101pF
222: 2200pF
103: 10000pF

成品直径

04: 4.0mm
05: 5.0mm
16: 16.0mm
C0: 5.0mm
C4: 5.4mm
C6: 5.6mm

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

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)

温度系数

A: NP0
S: SL
B: Y5P
E: Y5U
F: Y5V

技术要求

| | |
|-------------------|---|
| 电容量 (C) 和介质损耗测试条件 | SL/NP0: 25°C、1±0.1MHz、1.0Vrms Y5P/Y5U/Y5V: 25°C、1±0.1MHz、1.0Vrms |
| 介质损耗 | SL/NP0: ≤0.15% Y5P/Y5U/Y5V: ≤2.5% |
| 额定电压 | 500VDC、1000VDC、2000VDC、3000VDC、4000VDC、5000VDC、6000VDC |
| 耐电压 | 1.5U _R +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 3150 | 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 6300 | 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 (成品直径 < 12mm) ② C ≤ 3.0mm (成品直径 ≥ 12mm) |
| 短直脚脚型 |  | ① [2.5 ≤ L < 6.0] ± 0.5; ② [6.0 ≤ L ≤ 10] ± 1.0 | ① C ≤ 2.5mm (成品直径 < 12mm) ② C ≤ 3.0mm (成品直径 ≥ 12mm) |
| 单外弯脚型 |  | ① [2.5 ≤ L < 6.0] ± 0.5; 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; 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; 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 +1.5/-1.0 | 16.5&17.0&19.0 +1.5/-1.0 | 16.5&17.0&19.0 +1.5/-1.0 | | | |
| | L | 直脚 脚型 | 弯脚 脚型 | 直脚 脚型 | 弯脚 脚型 | 直脚 脚型 | 弯脚 脚型 |
| | | 11.0 Max | 9.0 Max | 11.0 Max | 9.0 Max | 11.0 Max | 9.0 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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