

Lead Type Disc High Voltage Ceramic Capacitors-HV Series (500VDC-6.3KVDC) Data Sheet

Feature

- Wide capacitance range from 100pF to 100000pF
- Operating Temperature: $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Storage Temperature: $15^{\circ}\text{C} \sim 35^{\circ}\text{C}$
- The high voltage disc ceramic capacitors have feature of withstanding higher voltage

Applications

- These capacitors are used in bypass and coupling circuit, and those capacitors with low dissipation factor are particularly suitable to be used in circuits such as line scanning in Tvset

Part Number Code

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

| | | | | | | | | | | | | |
|---|---|--|-------------------------------------|-------------------------|--|--|---|---|---|---|---|---|
| Rated Voltage L: 500VDC N: 1KVDC R: 2KVDC S: 3KVDC T: 4KVDC W: 5KVDC A: 6KVDC | Pitch A:2.5mm B:5.0mm E:7.5mm D:10.0mm | Tolerance C:±0.25pF J±5% :K:±10% M:±20% | Package B: Bulk T:Tape | Inner Management | Nominal capacitance 10:100pF 100:101pF 222:2200pF 103:10000pF | Environmental Standard 0:RoHS 2:RoHS+Halogen-Free | Core Diameter 04: 4.0mm 05: 5.0mm 16: 16.0mm C0: 5.0mm C4: 5.4mm C6: 5.6mm | Foot Type 1:Long straight 2:Outside Crimped 3:Short Straight 4:Inner Crimped 8:Vertical Crimped | Lead Length 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 | Lead Length 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 | Lead Length M0~M9:14.0~14.9mm N0:16~27.0mm(Bulk) Crimped Lead Taped N0:H0=16.5mm P0:H0=17.0mm Q0:H0=19.0mm Straight Lead Q0:20.0mm | Temperature Characteristic A:NP0 S:SL B:Y5P E:Y5U F:Y5V |
|---|---|--|-------------------------------------|-------------------------|--|--|---|---|---|---|---|---|

Specifications

| | |
|---|---|
| Capacitance and Dissipation factor testing condition | SL/NP0:25℃、1±0.1MHz、1.0Vrms Y5P/Y5U/Y5V:25℃、1±0.1MHz、1.0Vrms |
| Dissipation Factor(tanδ) | SL/NP0:≤0.15% Y5P/Y5U/Y5V:≤2.5% |
| Rated Voltage | 500VDC、1000VDC、2000VDC、3000VDC、4000VDC、5000VDC、6000VDC |
| Withstand Voltage | 1.5U _R +500V(DC) |
| Insulation Resistance (I.R.) | SL/NP0:IR≥10000MΩ;Y5P/Y5U/Y5V:IR≥4000MΩ |
| Temperature Characteristic | SL、NP0、Y5P、Y5U、Y5V |

Dimensions (mm)



| Rated Voltage (VDC) | Temperature Coefficient Group | | | | | Dimension (mm) | | Lead Size (mm) | | | |
|--------------------------|-------------------------------|-----------|-------------|--------|--------|----------------|---------|----------------|--------|---------|-----|
| | Y5P (B) | Y5U (E) | Y5V (F) | SL | NP0 | D±1 | T±1 | F | d±0.05 | | |
| Nominal Capacitance (pF) | | | | | | | | | | | |
| 500 | 100-1500 | 1500-2200 | 3300-4700 | 20-150 | 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 | 68 | / | 8.0 | | | | | |
| | 1500 | 4700 | 6800 | / | / | 10.0 | 3.0 | 7.5±0.8 | 0.6 | | |
| | 1800-2200 | / | 10000 | / | / | 11.0 | | | | | |
| | 2700 | / | / | / | / | 12.0 | | | | | |
| | 3300 | / | / | / | / | 13.0 | | | | | |
| | 2200 | / | / | / | / | 14.0 | | | | | |
| | 4700 | 10000 | 20000-22000 | / | / | 14.5 | | | | | |

| Rated Voltage (VDC) | Temperature Coefficient Group | | | | | Dimension (mm) | | Lead Size (mm) | |
|---------------------|-------------------------------|----------|-------------|-------|------|----------------|----------|----------------|---------|
| | Y5P(B) | Y5U(E) | Y5V(F) | SL | NPO | D±1 | T±1 | F | d±0.05 |
| | Nominal Capacitance (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 | | | |
| 3150 | 100-470 | 1000 | 1500 | 10-39 | / | 6.0 | 3.5 | 7.5±0.8 | 0.6 |
| | 680 | / | 2200 | 47-68 | / | 7.0 | | | |
| | / | 1500 | 3300 | 82 | / | 8.0 | | | |
| | 1000 | 2200 | 4700 | / | / | 9.0 | | | |
| | 1500 | 3200 | / | / | / | 11.0 | 10.0±0.8 | 0.7 | |
| | 2200 | 4700 | / | / | / | 13.0 | | | |
| | / | / | 10000 | / | / | 14.0 | | | |
| | / | 10000 | / | / | / | 17.5 | | | |
| 4000 | 100-470 | 680-1000 | 1500 | 10-68 | 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 | 10-39 | / | 6.0 | 3.5/4.5 | 10.0±0.8 | 0.6/0.7 |
| | 330 | 560-1000 | 1500 | 47-56 | / | 7.0 | 4.5 | | |
| | 470 | / | 2200 | 68-82 | / | 8.0 | | | |
| | 560-680 | 1500 | / | / | / | 9.0 | | | |
| | / | 2200 | 3300 | / | / | 10.0 | | 13.5 | 16.5 |
| | 1000 | / | 4700 | / | / | 11.0 | | | |
| | / | 3300 | / | / | / | 13.5 | | | |
| | / | 4700 | / | / | / | 16.5 | | | |

| Rated Voltage (VDC) | Temperature Coefficient Group | | | | | Dimension (mm) | | Lead Size (mm) | |
|---------------------|-------------------------------|----------|--------|-------|-----|----------------|---------|----------------|---------|
| | Y5P(B) | Y5U(E) | Y5V(F) | SL | NPO | D±1 | T±1 | F | d±0.05 |
| | Nominal Capacitance (pF) | | | | | | | | |
| 6000 | 100-220 | 330-470 | 1000 | 10-39 | / | 6.0 | 3.5/4.5 | 10.0 ±0.8 | 0.6/0.7 |
| | 330 | 560-1000 | 1500 | 47-56 | / | 7.0 | 4.5 | | |
| | 470 | / | 2200 | 68-82 | / | 8.0 | | | |
| | 560-680 | 1500 | / | / | / | 9.0 | | | |
| | / | 2200 | 3300 | / | / | 10.0 | | | |
| | 1000 | / | 4700 | / | / | 11.0 | | | |
| | / | 3300 | / | / | / | 13.5 | | | |
| | / | 4700 | / | / | / | 16.5 | | | |
| 6300 | 100-220 | 1000 | / | 10-39 | / | 6.0 | 3.5/4.5 | 10.0 ±0.8 | 0.6/0.7 |
| | 330 | / | / | 47-68 | / | 7.0 | 4.5 | | |
| | 470 | / | 2200 | 82 | / | 8.0 | | | |
| | 680 | / | / | / | / | 9.0 | | | |
| | 1000 | 2200 | 3300 | / | / | 10.0 | | | |
| | / | / | 4700 | / | / | 11.0 | | | |

Lead Configuration

| Lead Style | Drawing | Lead Length L (mm) | Coating Lead Length C (mm) |
|------------------|---|--|--|
| Long Straight |  | 16.0 min | ① C ≤ 2.5mm (Product diameter < 12mm) ② C ≤ 3.0mm (Product diameter ≥ 12mm) |
| Short Straight |  | ① [2.5 ≤ L < 6.0] ± 0.5; ② [6.0 ≤ L ≤ 10] ± 1.0 | ① C ≤ 2.5mm (Product diameter < 12mm) ② C ≤ 3.0mm (Product diameter ≥ 12mm) |
| Outside Crimped |  | ① [2.5 ≤ L < 6.0] ± 0.5; ② [6.0 ≤ L ≤ 10] ± 1.0 | Not exceed the bend point |
| Inner Crimped |  | ① [2.5 ≤ L < 6.0] ± 0.5; ② [6.0 ≤ L ≤ 10] ± 1.0 | Not exceed the bend point |
| Vertical Crimped |  | ① [2.5 ≤ L < 6.0] ± 0.5; ② [6.0 ≤ L ≤ 10] ± 1.0 | Not exceed the bend point |

Taping And Dimensions (mm)

| Figure | Fig.1 | | Fig.2 | | | | |
|--|--|-----------------------------|-----------------------------|-----------------------------|---------------|---------------|--------------|
| | Symbol | 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 | | Straight Lead | Crimped Lead | Straight Lead | Crimped Lead | Straight Lead | Crimped Lead |
| | | 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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