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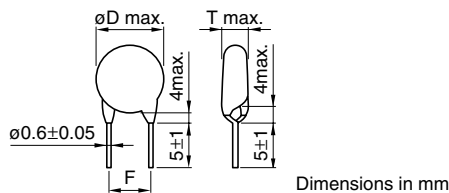
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# Mid-high Voltage Ceramic Capacitors(Disk with Lead)

## General Use CK45 Series

Conformity to RoHS Directive

### SHAPES AND DIMENSIONS



### CAPACITANCE TEMPERATURE CHARACTERISTICS AND TOLERANCE

| Temperature characteristics | Temperature range | Capacitance tolerance |
|-----------------------------|-------------------|-----------------------|
| B(±10%)                     | -25 to +85°C      | K(±10%)               |
| E(+20, -55%)                | -25 to +85°C      | Z(+80, -20%)          |

### CAPACITANCE AND DIMENSIONS

#### TEMPERATURE CHARACTERISTICS: B(±10%)

RATED VOLTAGE Edc: 1kV

| Part No.                                | Capacitance (pF) | Dimensions (mm) |        |         |
|---|------------------|-----------------|--------|---------|
|   |                  | øD max.         | T max. | F       |
| CK45-B3AD101KYNN to<br>CK45-B3AD681KYNN | 100*, 120, 150*  | 5.5             | 5      | 5±1.5   |
|   | 180, 220*, 270   |                 |        |         |
|   | 330*, 390, 470*  |                 |        |         |
|   | 560, 680*        |                 |        |         |
| CK45-B3AD821KYNN                        | 820              | 6               | 5      | 5±1.5   |
| CK45-B3AD102KYNN                        | 1,000*           | 6               | 5      | 5±1.5   |
| CK45-B3AD122KYNN                        | 1,200            | 6.5             | 5      | 5±1.5   |
| CK45-B3AD152KYNN                        | 1,500*           | 7               | 5      | 5±1.5   |
| CK45-B3AD182KYNN                        | 1,800            | 7.5             | 5      | 5±1.5   |
| CK45-B3AD222KYNN                        | 2,200*           | 8.5             | 5      | 5±1.5   |
| CK45-B3AD272KYNN                        | 2,700            | 9               | 5      | 5±1.5   |
| CK45-B3AD332KYNN                        | 3,300*           | 9.5             | 5      | 5±1.5   |
| CK45-B3AD392KYNN                        | 3,900            | 10              | 5      | 5±1.5   |
| CK45-B3AD472KYNN                        | 4,700*           | 11              | 5      | 5±1.5   |
| CK45-B3AD562KYNN                        | 5,600            | 12              | 5      | 7.5±1.5 |
| CK45-B3AD682KYNN                        | 6,800*           | 13              | 5      | 7.5±1.5 |
| CK45-B3AD822KYNN                        | 8,200            | 14              | 5      | 7.5±1.5 |
| CK45-B3AD103KYNN                        | 10,000*          | 15              | 5      | 7.5±1.5 |

RATED VOLTAGE Edc: 2kV

| Part No.                                | Capacitance (pF) | Dimensions (mm) |        |         |
|---|------------------|-----------------|--------|---------|
|   |                  | øD max.         | T max. | F       |
| CK45-B3DD101KYNN to<br>CK45-B3DD471KYNN | 100*, 120, 150*  | 5.5             | 5      | 5±1.5   |
|   | 180, 220*, 270   |                 |        |         |
|   | 330*, 470*       |                 |        |         |
| CK45-B3DD561KYNN                        | 560              | 6               | 5      | 5±1.5   |
| CK45-B3DD681KYNN                        | 680*             | 6.5             | 5      | 5±1.5   |
| CK45-B3DD821KYNN                        | 820              | 7               | 5      | 5±1.5   |
| CK45-B3DD102KYNN                        | 1,000*           | 7.5             | 5      | 5±1.5   |
| CK45-B3DD122KYNN                        | 1,200            | 8               | 5      | 5±1.5   |
| CK45-B3DD152KYNN                        | 1,500*           | 8.5             | 5      | 5±1.5   |
| CK45-B3DD182KYNN                        | 1,800            | 9               | 5      | 5±1.5   |
| CK45-B3DD222KYNN                        | 2,200*           | 10              | 5      | 5±1.5   |
| CK45-B3DD272KYNN                        | 2,700            | 10.5            | 5      | 5±1.5   |
| CK45-B3DD332KYNN                        | 3,300*           | 11.5            | 5      | 7.5±1.5 |
| CK45-B3DD392KYNN                        | 3,900            | 12.5            | 5      | 7.5±1.5 |
| CK45-B3DD472KYNN                        | 4,700*           | 14              | 5      | 7.5±1.5 |

\* 1kV and 2kV are E6 series standard products in Temperature characteristics B.

RATED VOLTAGE Edc: 3kV

| Part No.         | Capacitance (pF) | Dimensions (mm) |        |         |
|------------------|------------------|-----------------|--------|---------|
|                  |                  | øD max.         | T max. | F       |
| CK45-B3FD101KYNN | 100              | 5.5             | 6      | 7.5±1.5 |
| CK45-B3FD121KYNN | 120              | 5.5             | 6      | 7.5±1.5 |
| CK45-B3FD151KYNN | 150              | 5.5             | 6      | 7.5±1.5 |
| CK45-B3FD181KYNN | 180              | 5.5             | 6      | 7.5±1.5 |
| CK45-B3FD221KYNN | 220              | 5.5             | 6      | 7.5±1.5 |
| CK45-B3FD271KYNN | 270              | 6               | 6      | 7.5±1.5 |
| CK45-B3FD331KYNN | 330              | 6.5             | 6      | 7.5±1.5 |
| CK45-B3FD391KYNN | 390              | 6.5             | 6      | 7.5±1.5 |
| CK45-B3FD471KYNN | 470              | 7               | 6      | 7.5±1.5 |
| CK45-B3FD561KYNN | 560              | 7.5             | 6      | 7.5±1.5 |
| CK45-B3FD681KYNN | 680              | 8               | 6      | 7.5±1.5 |
| CK45-B3FD821KYNN | 820              | 8.5             | 6      | 7.5±1.5 |
| CK45-B3FD102KYNN | 1,000            | 9               | 6      | 7.5±1.5 |
| CK45-B3FD122KYNN | 1,200            | 9.5             | 6      | 7.5±1.5 |
| CK45-B3FD152KYNN | 1,500            | 10.5            | 6      | 7.5±1.5 |
| CK45-B3FD182KYNN | 1,800            | 11.5            | 6      | 7.5±1.5 |
| CK45-B3FD222KYNN | 2,200            | 12.5            | 6      | 7.5±1.5 |
| CK45-B3FD272KYNN | 2,700            | 13.5            | 6      | 7.5±1.5 |
| CK45-B3FD332KYNN | 3,300            | 14.5            | 6      | 7.5±1.5 |

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

## CAPACITANCE AND DIMENSIONS

### TEMPERATURE CHARACTERISTICS: E(+20, -55%)

RATED VOLTAGE E<sub>dc</sub>: 1kV

| Part No.         | Capacitance<br>(pF) | Dimensions (mm) |        |         |
|------------------|---------------------|-----------------|--------|---------|
|                  |                     | øD max.         | T max. | F       |
| CK45-E3AD471ZYNN | 470*                | 5.5             | 5      | 5±1.5   |
| CK45-E3AD681ZYNN | 680                 | 5.5             | 5      | 5±1.5   |
| CK45-E3AD102ZYNN | 1,000*              | 5.5             | 5      | 5±1.5   |
| CK45-E3AD152ZYNN | 1,500               | 5.5             | 5      | 5±1.5   |
| CK45-E3AD222ZYNN | 2,200*              | 6.5             | 5      | 5±1.5   |
| CK45-E3AD332ZYNN | 3,300               | 7.5             | 5      | 5±1.5   |
| CK45-E3AD472ZYNN | 4,700*              | 8.5             | 5      | 5±1.5   |
| CK45-E3AD682ZYNN | 6,800               | 10              | 5      | 5±1.5   |
| CK45-E3AD103ZYNN | 10,000*             | 11.5            | 5      | 7.5±1.5 |

RATED VOLTAGE E<sub>dc</sub>: 2kV

| Part No.         | Capacitance<br>(pF) | Dimensions (mm) |        |         |
|------------------|---------------------|-----------------|--------|---------|
|                  |                     | øD max.         | T max. | F       |
| CK45-E3DD471ZYNN | 470*                | 5.5             | 5      | 5±1.5   |
| CK45-E3DD681ZYNN | 680                 | 5.5             | 5      | 5±1.5   |
| CK45-E3DD102ZYNN | 1,000*              | 6               | 5      | 5±1.5   |
| CK45-E3DD152ZYNN | 1,500               | 7               | 5      | 5±1.5   |
| CK45-E3DD222ZYNN | 2,200*              | 8               | 5      | 5±1.5   |
| CK45-E3DD332ZYNN | 3,300               | 9               | 5      | 5±1.5   |
| CK45-E3DD472ZYNN | 4,700*              | 10.5            | 5      | 5±1.5   |
| CK45-E3DD682ZYNN | 6,800               | 12.5            | 5      | 7.5±1.5 |
| CK45-E3DD103ZYNN | 10,000*             | 14.5            | 5      | 7.5±1.5 |

\* 1kV and 2kV are E3 series standard products in Temperature characteristics E.

RATED VOLTAGE E<sub>dc</sub>: 3kV

| Part No.         | Capacitance<br>(pF) | Dimensions (mm) |        |         |
|------------------|---------------------|-----------------|--------|---------|
|                  |                     | øD max.         | T max. | F       |
| CK45-E3FD471ZYNN | 470                 | 6               | 6      | 7.5±1.5 |
| CK45-E3FD681ZYNN | 680                 | 6.5             | 6      | 7.5±1.5 |
| CK45-E3FD102ZYNN | 1,000               | 7.5             | 6      | 7.5±1.5 |
| CK45-E3FD152ZYNN | 1,500               | 8.5             | 6      | 7.5±1.5 |
| CK45-E3FD222ZYNN | 2,200               | 9.5             | 6      | 7.5±1.5 |
| CK45-E3FD332ZYNN | 3,300               | 11.5            | 6      | 7.5±1.5 |
| CK45-E3FD472ZYNN | 4,700               | 12.5            | 6      | 7.5±1.5 |
| CK45-E3FD682ZYNN | 6,800               | 15              | 6      | 7.5±1.5 |
| CK45-E3FD103ZYNN | 10,000              | 17.5            | 6      | 10±2    |

• For more information about products with other capacitance or other data, please contact us.

• All specifications are subject to change without notice.