



Disc Type Capacitors with Lead

High Voltage Ceramic Capacitors

Commercial Grade

CK45 series

Type: CK45 [B, E characteristics, Edc: 1kV to 3kV]



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

REMINDERS

- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.
The preheating temperature should be set so that the temperature difference between the solder temperature and product temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.
If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

| | |
|---|--|
| (1) Aerospace/Aviation equipment | (8) Public information-processing equipment |
| (2) Transportation equipment (cars, electric trains, ships, etc.) | (9) Military equipment |
| (3) Medical equipment | (10) Electric heating apparatus, burning equipment |
| (4) Power-generation control equipment | (11) Disaster prevention/crime prevention equipment |
| (5) Atomic energy-related equipment | (12) Safety equipment |
| (6) Seabed equipment | (13) Other applications that are not considered general-purpose applications |
| (7) Transportation control equipment | |
- Please refer to the guideline of notabilia for fixed ceramic capacitors issued by JEITA(Japan Electronics and Information Technology Association, EIAJ RCR-2335).

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

Disc Type Capacitors with Lead

High Voltage Ceramic Capacitors, Commercial Grade

Product compatible with RoHS directive
Halogen-free

Overview of CK45 Series

FEATURES

- These products shall conform to RoHS Directive due to lead(Pb) free of lead wire and internal solder material.
- Compatible with halogen-free external resin coating.

APPLICATION

For use in DC ballast

PART NUMBER CONSTRUCTION

| CK45 | - | B | 3AD | 102 | K | Y |  | N | A | | | | |
|--------------|-----------------------------|---------------|-----|---------------------|----------|-----------------------|---|-----------|------------|----------------------------|---------------|---|--------------|
| Series name* | Temperature characteristics | Rated voltage | | Nominal capacitance | | Capacitance tolerance | Class | Lead type | | Application classification | Internal code | | |
| B | ±10% | 3AD | 1kV | 101 | 100pF | K | ±10% | G | Long lead | N | General use | A | Halogen-free |
| E | +20, -55% | 3DD | 2kV | 222 | 2,200pF | Z | +80, -20% | N | Short lead | | | | |
| | | 3FD | 3kV | 103 | 10,000pF | | | V | Taping | | | | |

* Please refer to P-5-10 about the product dimensions.

OPERATING TEMPERATURE RANGE

| Temperature characteristics | Temperature range* | |
|-----------------------------|----------------------------|----------------------------|
| | Operating temperature (°C) | Storage temperature** (°C) |
| B | -25 to +105 | -25 to +105 |
| E | -25 to +105 | -25 to +105 |

* The maximum operating temperature of 105°C includes capacitor self-generated heat of up to 20°C.

** The storage temperature range applies to after MLCC is mounted on board.

PACKAGE QUANTITY

| Type | Package quantity | |
|------|-----------------------|---------------------|
| | Taping (pieces / box) | Bulk (pieces / bag) |
| CK45 | 1000 | 1000 |

* 500 pieces applies to the following part.
CK45-E3DD103ZYVNA

- RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. <http://product.tdk.com/en/environment/rohs/>
- Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

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Overview of CK45 Series

RECOMMENDED FLOW PROFILE



| Preheating | | Peak | | Natural cooling |
|------------|------------|-------|-------------|-----------------|
| Temp. | Time | Temp. | Time | Time |
| T1 | t1 | T2 | t2 | t3 |
| 110°C min. | 30 to 60s. | 260°C | Within 10s. | Over 60s. |

CK45 Type

CAPACITANCE AND DIMENSIONS

□ Temperature Characteristics: B ($\pm 10\%$)

□ Rated Voltage Edc: 1kV

| Capacitance (pF) | Capacitance tolerance | Dimensions (mm) | | F (Applied to bulk) | F (Applied to taping) | d | Taping dimensions*** | Part No.* |
|------------------|-----------------------|-----------------|--------|---------------------|-----------------------|----------------|----------------------|---------------------|
| | | D max. | T max. | | | | | |
| 100 | $\pm 10\%$ | 5.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3AD101KY□NA** |
| 150 | $\pm 10\%$ | 5.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3AD151KY□NA |
| 220 | $\pm 10\%$ | 5.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3AD221KY□NA |
| 330 | $\pm 10\%$ | 5.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3AD331KY□NA |
| 470 | $\pm 10\%$ | 5.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3AD471KY□NA |
| 680 | $\pm 10\%$ | 5.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3AD681KY□NA |
| 1,000 | $\pm 10\%$ | 6.0 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3AD102KY□NA |
| 1,500 | $\pm 10\%$ | 7.0 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3AD152KY□NA |
| 2,200 | $\pm 10\%$ | 8.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3AD222KY□NA |
| 3,300 | $\pm 10\%$ | 9.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3AD332KY□NA |
| 4,700 | $\pm 10\%$ | 11.0 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3AD472KY□NA |

* The part numbers are TDK's standard specification products.

** The "□" of the Part Number contains the lead type, G, N or V. Please refer to the details of each shape is shown below.

*** Please refer to P-11 about the taping dimensions.

LIST OF STANDARD LEAD SHAPES

Dimensions in mm

| | Symbol G Bulk/Long lead | Symbol N Bulk/Short lead | Symbol V Taping |
|---------------|----------------------------|-----------------------------|--------------------|
| Vertical kink | | | |

• TDK's standard product is vertical kink.

• TDK's recommendation is short lead type with the symbol N for bulk products.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

CK45 Type

CAPACITANCE AND DIMENSIONS

□ Temperature Characteristics: B ($\pm 10\%$)

□ Rated Voltage Edc: 2kV

| Capacitance (pF) | Capacitance tolerance | Dimensions (mm) | | F (Applied to bulk) | F (Applied to taping) | d | Taping dimensions*** | Part No.* |
|------------------|-----------------------|-----------------|--------|---------------------|-----------------------|----------------|----------------------|---------------------|
| | | D max. | T max. | | | | | |
| 100 | $\pm 10\%$ | 5.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3DD101KY□NA** |
| 150 | $\pm 10\%$ | 5.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3DD151KY□NA |
| 220 | $\pm 10\%$ | 5.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3DD221KY□NA |
| 330 | $\pm 10\%$ | 5.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3DD331KY□NA |
| 470 | $\pm 10\%$ | 5.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3DD471KY□NA |
| 680 | $\pm 10\%$ | 6.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3DD681KY□NA |
| 1,000 | $\pm 10\%$ | 7.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3DD102KY□NA |
| 1,500 | $\pm 10\%$ | 8.5 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3DD152KY□NA |
| 2,200 | $\pm 10\%$ | 10.0 | 5.0 | 5.0 ± 1.5 | $5.0 + 0.8, -0.2$ | 0.6 ± 0.05 | V1 | CK45-B3DD222KY□NA |
| 3,300 | $\pm 10\%$ | 11.5 | 5.0 | 7.5 ± 1.5 | 7.5 ± 0.8 | 0.6 ± 0.05 | V2 | CK45-B3DD332KY□NA |
| 4,700 | $\pm 10\%$ | 14.0 | 5.0 | 7.5 ± 1.5 | 7.5 ± 0.8 | 0.6 ± 0.05 | V2 | CK45-B3DD472KY□NA |

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** The "□" of the Part Number contains the lead type, G, N or V. Please refer to the details of each shape is shown below.

*** Please refer to P-11 about the taping dimensions.

LIST OF STANDARD LEAD SHAPES

Dimensions in mm

| | Symbol G Bulk/Long lead | Symbol N Bulk/Short lead | Symbol V Taping |
|---------------|----------------------------|-----------------------------|--------------------|
| Vertical kink | | | |

• TDK's standard product is vertical kink.

• TDK's recommendation is short lead type with the symbol N for bulk products.

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

CK45 Type

CAPACITANCE AND DIMENSIONS

□ Temperature Characteristics: B ($\pm 10\%$)

□ Rated Voltage Edc: 3kV

| Capacitance (pF) | Capacitance tolerance | Dimensions (mm) | | F (Applied to bulk) | F (Applied to taping) | d | Taping dimensions*** | Part No.* |
|------------------|-----------------------|-----------------|--------|---------------------|-----------------------|----------------|----------------------|---------------------|
| | | D max. | T max. | | | | | |
| 100 | $\pm 10\%$ | 5.5 | 6.0 | 7.5 ± 1.5 | 7.5 ± 0.8 | 0.6 ± 0.05 | V2 | CK45-B3FD101KY□NA** |
| 150 | $\pm 10\%$ | 5.5 | 6.0 | 7.5 ± 1.5 | 7.5 ± 0.8 | 0.6 ± 0.05 | V2 | CK45-B3FD151KY□NA |
| 220 | $\pm 10\%$ | 5.5 | 6.0 | 7.5 ± 1.5 | 7.5 ± 0.8 | 0.6 ± 0.05 | V2 | CK45-B3FD221KY□NA |
| 330 | $\pm 10\%$ | 6.5 | 6.0 | 7.5 ± 1.5 | 7.5 ± 0.8 | 0.6 ± 0.05 | V2 | CK45-B3FD331KY□NA |
| 470 | $\pm 10\%$ | 7.0 | 6.0 | 7.5 ± 1.5 | 7.5 ± 0.8 | 0.6 ± 0.05 | V2 | CK45-B3FD471KY□NA |
| 680 | $\pm 10\%$ | 8.0 | 6.0 | 7.5 ± 1.5 | 7.5 ± 0.8 | 0.6 ± 0.05 | V2 | CK45-B3FD681KY□NA |
| 1,000 | $\pm 10\%$ | 9.0 | 6.0 | 7.5 ± 1.5 | 7.5 ± 0.8 | 0.6 ± 0.05 | V2 | CK45-B3FD102KY□NA |
| 1,500 | $\pm 10\%$ | 10.5 | 6.0 | 7.5 ± 1.5 | 7.5 ± 0.8 | 0.6 ± 0.05 | V2 | CK45-B3FD152KY□NA |
| 2,200 | $\pm 10\%$ | 12.5 | 6.0 | 7.5 ± 1.5 | 7.5 ± 0.8 | 0.6 ± 0.05 | V2 | CK45-B3FD222KY□NA |

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Dimensions in mm

| | Symbol G Bulk/Long lead | Symbol N Bulk/Short lead | Symbol V Taping |
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CK45 Type

CAPACITANCE AND DIMENSIONS

□ Temperature Characteristics: E (+20, -55%)

□ Rated Voltage Edc: 1kV

| Capacitance (pF) | Capacitance tolerance | Dimensions (mm) | | F (Applied to bulk) | F (Applied to taping) | d | Taping dimensions*** | Part No.* |
|------------------|-----------------------|-----------------|--------|---------------------|-----------------------|----------|----------------------|---------------------|
| | | D max. | T max. | | | | | |
| 470 | +80, -20% | 5.5 | 5.0 | 5.0±1.5 | 5.0+0.8, -0.2 | 0.6±0.05 | V1 | CK45-E3AD471ZY□NA** |
| 1,000 | +80, -20% | 5.5 | 5.0 | 5.0±1.5 | 5.0+0.8, -0.2 | 0.6±0.05 | V1 | CK45-E3AD102ZY□NA |
| 2,200 | +80, -20% | 6.5 | 5.0 | 5.0±1.5 | 5.0+0.8, -0.2 | 0.6±0.05 | V1 | CK45-E3AD222ZY□NA |
| 4,700 | +80, -20% | 8.5 | 5.0 | 5.0±1.5 | 5.0+0.8, -0.2 | 0.6±0.05 | V1 | CK45-E3AD472ZY□NA |
| 10,000 | +80, -20% | 11.5 | 5.0 | 7.5±1.5 | 7.5±0.8 | 0.6±0.05 | V2 | CK45-E3AD103ZY□NA |

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LIST OF STANDARD LEAD SHAPES

Dimensions in mm

| | Symbol G Bulk/Long lead | Symbol N Bulk/Short lead | Symbol V Taping |
|---------------|----------------------------|-----------------------------|--------------------|
| Vertical kink | | | |

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CK45 Type

CAPACITANCE AND DIMENSIONS

□ Temperature Characteristics: E (+20, -55%)

□ Rated Voltage Edc: 2kV

| Capacitance (pF) | Capacitance tolerance | Dimensions (mm) | | F (Applied to bulk) | F (Applied to taping) | d | Taping dimensions*** | Part No.* |
|------------------|-----------------------|-----------------|--------|---------------------|-----------------------|----------|----------------------|---------------------|
| | | D max. | T max. | | | | | |
| 470 | +80, -20% | 5.5 | 5.0 | 5.0±1.5 | 5.0+0.8, -0.2 | 0.6±0.05 | V1 | CK45-E3DD471ZY□NA** |
| 1,000 | +80, -20% | 6.0 | 5.0 | 5.0±1.5 | 5.0+0.8, -0.2 | 0.6±0.05 | V1 | CK45-E3DD102ZY□NA |
| 2,200 | +80, -20% | 8.0 | 5.0 | 5.0±1.5 | 5.0+0.8, -0.2 | 0.6±0.05 | V1 | CK45-E3DD222ZY□NA |
| 4,700 | +80, -20% | 10.5 | 5.0 | 5.0±1.5 | 5.0+0.8, -0.2 | 0.6±0.05 | V1 | CK45-E3DD472ZY□NA |
| 10,000 | +80, -20% | 14.5 | 5.0 | 7.5±1.5 | 7.5±0.8 | 0.6±0.05 | V3 | CK45-E3DD103ZY□NA |

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LIST OF STANDARD LEAD SHAPES

Dimensions in mm

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CK45 Type

CAPACITANCE AND DIMENSIONS

□ Temperature Characteristics: E (+20, -55%)

□ Rated Voltage Edc: 3kV

| Capacitance (pF) | Capacitance tolerance | Dimensions (mm) | | F (Applied to bulk) | F (Applied to taping) | d | Taping dimensions*** | Part No.* |
|------------------|-----------------------|-----------------|--------|---------------------|-----------------------|----------|----------------------|---------------------|
| | | D max. | T max. | | | | | |
| 470 | +80, -20% | 6.0 | 6.0 | 7.5±1.5 | 7.5±0.8 | 0.6±0.05 | V2 | CK45-E3FD471ZY□NA** |
| 1,000 | +80, -20% | 7.5 | 6.0 | 7.5±1.5 | 7.5±0.8 | 0.6±0.05 | V2 | CK45-E3FD102ZY□NA |
| 2,200 | +80, -20% | 9.5 | 6.0 | 7.5±1.5 | 7.5±0.8 | 0.6±0.05 | V2 | CK45-E3FD222ZY□NA |
| 4,700 | +80, -20% | 12.5 | 6.0 | 7.5±1.5 | 7.5±0.8 | 0.6±0.05 | V2 | CK45-E3FD472ZY□NA |

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** The "□" of the Part Number contains the lead type, G, N or V. Please refer to the details of each shape is shown below.

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LIST OF STANDARD LEAD SHAPES

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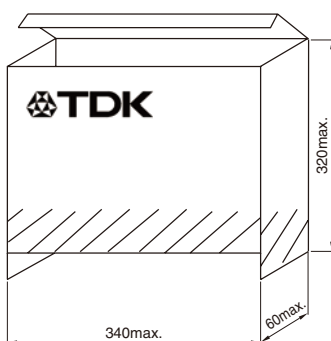
CK45 Type

TAPING DIMENSIONS



| Item | Symbol | Dimensions(mm) | | | Remarks |
|--------------------------------------|----------------|---|----------------|----------------|--|
| | | V1 | V2 | V3 | |
| Body diameter | D | Depends on the specification of each product. | | | |
| Body thickness | T | Depends on the specification of each product. | | | |
| Lead-wire diameter | ød | 0.6±0.05 | 0.6±0.05 | 0.6±0.05 | |
| Pitch of component | P | 12.7±1.0 | 15.0±1.0 | 30.0±1.0 | Including the slant of body |
| Feed hole pitch | P ₀ | 12.7±0.3 | 15.0±0.3 | 15.0±0.3 | Excepting the tape splicing part |
| Feed hole center to lead | P ₁ | 3.85±0.7 | 3.75±0.7 | 3.75±0.7 | |
| Feed hole center to component center | P ₂ | 6.35±1.3 | 7.5±1.3 | 7.5±1.3 | |
| Lead-to lead distance | F | 5+0.8, -0.2 | 7.5±0.8 | 7.5±0.8 | Measuring point is bottom kink |
| Component alignment | Δh | 0±2.0 | 0±2.0 | 0±2.0 | Including the slanting body due to bending lead-wire |
| Tape width | W | 18.0+1.0, -0.5 | 18.0+1.0, -0.5 | 18.0+1.0, -0.5 | |
| Adhesive tape width | W ₀ | 10.0min. | 10.0min. | 10.0min. | |
| Hole position | W ₁ | 9.0±0.5 | 9.0±0.5 | 9.0±0.5 | |
| Adhesive tape position | W ₂ | 4.0max. | 4.0max. | 4.0max. | Adhesive tape do not stick out the tape |
| Bottom of kink from tape center | H ₀ | 16.0+1.5, -0.5 | 16.0+1.5, -0.5 | 16.0+1.5, -0.5 | |
| Height of body from tape center | H ₁ | 46.0max. | 46.0max. | 46.0max. | |
| Lead-wire protrusion | ℓ | 1.0max. | 1.0max. | 1.0max. | |
| Feed hole diameter | D ₀ | 4.0±0.2 | 4.0±0.2 | 4.0±0.2 | |
| Total tape thickness | t | 0.6±0.3 | 0.6±0.3 | 0.6±0.3 | Including adhesive tape |
| Length of snapped lead | L | 11.0max. | 11.0max. | 11.0max. | |
| Coating on lead | C | 4.0max. | 4.0max. | 4.0max. | |
| Height of kink | A | 4.0max. | 4.0max. | 4.0max. | Measuring point is bottom kink |
| Spring action | S | 2.0max. | 2.0max. | 2.0max. | |

AMMO PACK INNER BOX SIZE



Dimensions in mm

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

⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

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[ZU102103M100BAND5H](#) [YP102681K060B20C6P](#) [YP501121K040B20C6P](#) [SL102181J070HAND5P](#) [YP501471K040B20C6P](#)
[SL102151J070HAND5P](#) [YP501102K050HAND5P](#) [ZU501102M050B20C6P](#) [YP501472K100B20C6P](#) [ZU102103M100B20C0P](#)
[YV500223Z080HAND5P](#) [F121K25S3NN63J5R](#) [F121K25S3NP63K7R](#) [F121K25S3NR63K7R](#) [F122K47S3NP63K7R](#) [F681K43S3NR63K7R](#)
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