



Holy Stone Enterprise Co., Ltd.

CERAMIC CAPACITOR CATALOG

NCC Series

Commerical grade

General Up to 50V

www.holystone.com.tw

www.holystonecaps.com

Multilayer Ceramic Chip Capacitors [Normal Chip Capacitors – NP0,X7R,X5R]

NCC Series



Standard Multilayer Ceramic Chip Capacitors are available in a full range of sizes and temperature coefficients, with voltage ratings from 6.3V to 50V.

◆ Features

- Surface mount suitable for wave and reflow soldering
- Small size and high reliability
- Excellent in high frequency characteristics
- RoHS compliant

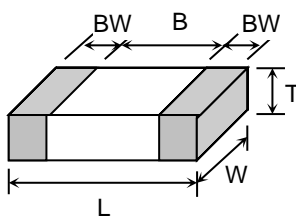
◆ Applications

- Suitable for general electronics circuit, telecommunication, personal computers and peripheral, power circuit, mobile application & etc

◆ Summary of Specifications

| | |
|-------------------------|---|
| Operation Temperature | NP0 & X7R : -55 °C ~ +125 °C , X5R : -55 °C ~ +85 °C |
| Rated Voltage | 6.3Vdc to 50Vdc |
| Temperature Coefficient | NP0 : $\pm 30\text{ppm}/^\circ\text{C}$, -55 °C ~ +125 °C (EIA Class I) |
| | X7R : $\pm 15\%$, -55 °C ~ +125 °C (EIA Class II) |
| | X5R : $\pm 15\%$, -55 °C ~ +85 °C (EIA Class II) |
| Dissipation Factor | NP0 : More than 30pF: $Q \geq 1000 (0.001)$, 30pF and below : $Q \geq 400+20C$ |
| | X7R, X5R : Max. 0.10 |
| Insulation Resistance | 10G Ω or 500/C Ω whichever is smaller (C in Farads) |
| Aging | NP0 : 0% , X7R/X5R : typically 1.0% |
| Dielectric Strength | 250% Rated Voltage |

◆ Dimensions



| TYPE | L | W | T (max) | B (min) | BW (min) |
|------|--------------------------------------|--------------------------------------|----------------|----------------|----------------|
| 0201 | 0.60 \pm 0.03 [.024 \pm .001] | 0.30 \pm 0.03 [.011 \pm .001] | 0.33 [.013] | 0.20 [.008] | 0.10 [.004] |
| 0402 | 1.00 \pm 0.05 [.039 \pm .002] | 0.50 \pm 0.05 [.020 \pm .002] | 0.55 [.022] | 0.30 [.012] | 0.15 [.006] |
| 0603 | 1.60 \pm 0.10 [.063 \pm .004] | 0.80 \pm 0.10 [.031 \pm .004] | 0.95 [.037] | 0.40 [.016] | 0.15 [.006] |
| 0805 | 2.00 \pm 0.20 [.079 \pm .012] | 1.25 \pm 0.20 [.049 \pm .008] | 1.45 [.057] | 0.70 [.028] | 0.20 [.008] |
| 1206 | 3.20 \pm 0.30 [.126 \pm .012] | 1.60 \pm 0.20 [.063 \pm .008] | 1.80 [.071] | 1.50 [.059] | 0.30 [.012] |

◆ How To Order



| Product Code | Chip Size | Dielectric | Capacitance Unit : pF | Tolerance | Rated Voltage | Packaging |
|--|--|---------------------------------------|---|--|--|------------------------------------|
| C: MLCC (Multilayer Ceramic Chip of Capacitor) | Ex.: 0201 0402 0603 0805 1206 | Ex.: N : NP0 X : X7R B : X5R | Ex.: 102 : 10 \times 10 ² 473 : 47 \times 10 ³ 104 : 10 \times 10 ⁴ | Ex.: F : +/- 1% G : +/- 2% J : +/- 5% K : +/- 10% M : +/- 20% | Ex.: 007 : 6.3Vdc 010 : 10Vdc 016 : 16Vdc 025 : 25Vdc 050 : 50Vdc | T: T&R 7" R: T&R 13" B: Bulk |

| Cap | Size | Thickness | Cap. Tol. | Catalog Number | | |
|----------------|------|----------------|-----------|-----------------------|-----------------------|-----------------------|
| | | | | Rated Voltage Vdc 16V | Rated Voltage Vdc 25V | Rated Voltage Vdc 50V |
| 0R5 (0.5pF) | 0201 | S/0.3+-0.03mm | J | C0201N0R5J016T | C0201N0R5J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N0R5J050T |
| 1R0 (1pF) | 0201 | S/0.3+-0.03mm | J | C0201N1R0J016T | C0201N1R0J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N1R0J050T |
| 1R5 (1.5pF) | 0201 | S/0.3+-0.03mm | J | C0201N1R5J016T | C0201N1R5J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N1R5J050T |
| 2R0 (2pF) | 0201 | S/0.3+-0.03mm | J | C0201N2R0J016T | C0201N2R0J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N2R0J050T |
| 3R0 (3pF) | 0201 | S/0.3+-0.03mm | J | C0201N3R0J016T | C0201N3R0J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N3R0J050T |
| 4R0 (4pF) | 0201 | S/0.3+-0.03mm | J | C0201N4R0J016T | C0201N4R0J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N4R0J050T |
| 5R0 (5pF) | 0201 | S/0.3+-0.03mm | J | C0201N5R0J016T | C0201N5R0J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N5R0J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N5R0J050T |
| 6R0 (6pF) | 0201 | S/0.3+-0.03mm | J | C0201N6R0J016T | C0201N6R0J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N6R0J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N6R0J050T |
| 7R0 (7pF) | 0201 | S/0.3+-0.03mm | J | C0201N7R0J016T | C0201N7R0J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N7R0J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N7R0J050T |
| 8R0 (8pF) | 0201 | S/0.3+-0.03mm | J | C0201N8R0J016T | C0201N8R0J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N8R0J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N8R0J050T |
| 9R0 (9pF) | 0201 | S/0.3+-0.03mm | J | C0201N9R0J016T | C0201N9R0J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N9R0J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N9R0J050T |
| 100 (10pF) | 0201 | S/0.3+-0.03mm | J | C0201N100J016T | C0201N100J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N100J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N100J050T |
| 120 (12pF) | 0805 | B/0.85+-0.15mm | J | | | C0805N100J050T |
| | 0201 | S/0.3+-0.03mm | J | C0201N120J016T | C0201N120J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N120J050T |
| 150 (15pF) | 0603 | B/0.85+-0.15mm | J | | | C0603N120J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N120J050T |
| | 0201 | S/0.3+-0.03mm | J | C0201N150J016T | C0201N150J025T | |
| 180 (18pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N150J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N150J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N150J050T |
| 180 (18pF) | 0201 | S/0.3+-0.03mm | J | C0201N180J016T | C0201N180J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N180J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N180J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N180J050T |

| Cap | Size | Thickness | Cap. Tol. | Catalog Number | | |
|----------------|------|----------------|-----------|-----------------------|-----------------------|-----------------------|
| | | | | Rated Voltage Vdc 16V | Rated Voltage Vdc 25V | Rated Voltage Vdc 50V |
| 220 (22pF) | 0201 | S/0.3+-0.03mm | J | C0201N220J016T | C0201N220J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N220J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N220J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N220J050T |
| 270 (27pF) | 0201 | S/0.3+-0.03mm | J | C0201N270J016T | C0201N270J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N270J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N270J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N270J050T |
| 330 (33pF) | 0201 | S/0.3+-0.03mm | J | C0201N330J016T | C0201N330J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N330J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N330J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N330J050T |
| 390 (39pF) | 0201 | S/0.3+-0.03mm | J | C0201N390J016T | C0201N390J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N390J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N390J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N390J050T |
| 470 (47pF) | 0201 | S/0.3+-0.03mm | J | C0201N470J016T | C0201N470J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N470J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N470J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N470J050T |
| 560 (56pF) | 0201 | S/0.3+-0.03mm | J | C0201N560J016T | C0201N560J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N560J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N560J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N560J050T |
| 680 (68pF) | 0201 | S/0.3+-0.03mm | J | C0201N680J016T | C0201N680J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N680J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N680J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N680J050T |
| 820 (82pF) | 0201 | S/0.3+-0.03mm | J | C0201N820J016T | C0201N820J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N820J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N820J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N820J050T |
| 101 (100pF) | 0201 | S/0.3+-0.03mm | J | C0201N101J016T | C0201N101J025T | |
| | 0402 | O/0.5+-0.05mm | J | | | C0402N101J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N101J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N101J050T |
| 121 (120pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N121J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N121J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N121J050T |
| 151 (150pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N151J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N151J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N151J050T |
| 181 (180pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N181J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N181J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N181J050T |

| Cap | Size | Thickness | Cap. Tol. | Catalog Number | | |
|----------------|------|----------------|-----------|-----------------------|-----------------------|-----------------------|
| | | | | Rated Voltage Vdc 16V | Rated Voltage Vdc 25V | Rated Voltage Vdc 50V |
| 221 (220pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N211J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N211J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N211J050T |
| 271 (270pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N271J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N271J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N271J050T |
| 331 (330pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N331J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N331J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N331J050T |
| 391 (390pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N391J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N391J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N391J050T |
| 471 (470pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N471J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N471J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N471J050T |
| 561 (560pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N561J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N561J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N561J050T |
| 681 (680pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N681J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N681J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N681J050T |
| 821 (820pF) | 0402 | O/0.5+-0.05mm | J | | | C0402N821J050T |
| | 0603 | B/0.85+-0.15mm | J | | | C0603N821J050T |
| | 0805 | B/0.85+-0.15mm | J | | | C0805N821J050T |

| Cap. | Size | Thickness | Cap. Tol. | Catalog Number | | |
|----------------|------|----------------|-----------|------------------------|-----------------------|-----------------------|
| | | | | Rated Voltage Vdc 6.3V | Rated Voltage Vdc 10V | Rated Voltage Vdc 16V |
| 151 (150pF) | 0603 | B/0.85+-0.15mm | K | | | C0603X151K016T |
| 221 (220pF) | 0603 | B/0.85+-0.15mm | K | | | C0603X221K016T |
| 271 (270pF) | 0603 | B/0.85+-0.15mm | K | | | C0603X271K016T |
| 331 (330pF) | 0603 | B/0.85+-0.15mm | K | | | C0603X331K016T |
| 391 (390pF) | 0603 | B/0.85+-0.15mm | K | | | C0603X391K016T |
| 471 (470pF) | 0603 | B/0.85+-0.15mm | K | | | C0603X471K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X471K016T |
| 561 (560pF) | 0603 | B/0.85+-0.15mm | K | | | C0603X561K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X561K016T |
| 681 (680pF) | 0603 | B/0.85+-0.15mm | K | | | C0603X681K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X681K016T |
| 102 (1nF) | 0603 | B/0.85+-0.15mm | K | | | C0603X102K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X102K016T |
| 122 (1.2nF) | 0603 | B/0.85+-0.15mm | K | | | C0603X122K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X122K016T |
| 152 (1.5nF) | 0201 | S/0.3+-0.03mm | K | | | C0201X152K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X152K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X152K016T |
| 182 (1.8nF) | 0201 | S/0.3+-0.03mm | K | | | C0201X182K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X182K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X182K016T |
| 222 (2.2nF) | 0201 | S/0.3+-0.03mm | K | | | C0201X222K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X222K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X222K016T |
| 272 (2.7nF) | 0201 | S/0.3+-0.03mm | K | | | C0201X272K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X272K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X272K016T |
| 332 (3.3nF) | 0201 | S/0.3+-0.03mm | K | | | C0201X332K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X332K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X332K016T |
| 392 (3.9nF) | 0603 | B/0.85+-0.15mm | K | | | C0603X392K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X392K016T |
| 472 (4.7nF) | 0603 | B/0.85+-0.15mm | K | | | C0603X472K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X472K016T |
| 562 (5.6nF) | 0603 | B/0.85+-0.15mm | K | | | C0603X562K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X562K016T |
| 682 (6.8nF) | 0603 | B/0.85+-0.15mm | K | | | C0603X682K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X682K016T |
| 822 (8.2nF) | 0603 | B/0.85+-0.15mm | K | | | C0603X822K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X822K016T |

| Cap. | Size | Thickness | Cap. Tol. | Catalog Number | | |
|----------------|------|----------------|-----------|------------------------|-----------------------|-----------------------|
| | | | | Rated Voltage Vdc 6.3V | Rated Voltage Vdc 10V | Rated Voltage Vdc 16V |
| 103 (10nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X103K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X103K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X103K016T |
| 123 (12nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X123K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X123K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X123K016T |
| 153 (15nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X153K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X153K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X153K016T |
| 183 (18nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X183K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X183K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X183K016T |
| 223 (22nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X223K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X223K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X223K016T |
| 273 (27nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X273K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X273K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X273K016T |
| 333 (33nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X333K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X333K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X333K016T |
| 393 (39nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X393K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X393K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X393K016T |
| 473 (47nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X473K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X473K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X473K016T |
| 563 (56nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X563K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X563K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X563K016T |
| 683 (68nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X683K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X683K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X683K016T |
| 823 (82nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X823K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X823K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X823K016T |
| 104 (100nF) | 0201 | S/0.3+-0.03mm | K | | | |
| | 0402 | O/0.5+-0.05mm | K | | C0402X104K010T | C0402X104K016T |
| | 0603 | B/0.85+-0.15mm | K | | | C0603X104K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X104K016T |
| 154 (150nF) | 1206 | B/0.85+-0.15mm | K | | | C1206X104K016T |
| | 0603 | B/0.85+-0.15mm | K | | C0603X154K010T | C0603X154K016T |
| | 0805 | B/0.85+-0.15mm | K | | | C0805X154K016T |
| | 1206 | B/0.85+-0.15mm | K | | | C1206X154K016T |

| Cap. | Size | Thickness | Cap. Tol. | Catalog Number | | |
|----------------|------|----------------|-----------|------------------------|-----------------------|-----------------------|
| | | | | Rated Voltage Vdc 6.3V | Rated Voltage Vdc 10V | Rated Voltage Vdc 16V |
| 224 (220nF) | 0603 | B/0.85+-0.15mm | K | C0603X224K010T | C0603X224K016T | |
| | 0805 | D/1.25±0.2mm | K | | C0805X224K016T | |
| | 1206 | B/0.85+-0.15mm | K | | C1206X224K016T | |
| 334 (330nF) | 0603 | B/0.85+-0.15mm | K | C0603X334K010T | C0603X334K016T | |
| | 0805 | D/1.25±0.2mm | K | | C0805X334K016T | |
| | 1206 | B/0.85+-0.15mm | K | | C1206X334K016T | |
| 474 (470nF) | 0603 | B/0.85+-0.15mm | K | C0603X474K010T | C0603X474K016T | |
| | 0805 | D/1.25±0.2mm | K | | C0805X474K016T | |
| | 1206 | B/0.85+-0.15mm | K | | C1206X474K016T | |
| 684 (680nF) | 0603 | B/0.85+-0.15mm | K | C0603X684K010T | C0603X684K016T | |
| | 0805 | D/1.25±0.2mm | K | | C0805X684K016T | |
| | 1206 | D/1.25±0.2mm | K | | C1206X684K016T | |

| Cap. | Size | Thickness | Cap. Tol. | Catalog Number | | |
|----------------|------|----------------|-----------|-----------------------|-----------------------|-----------------------|
| | | | | Rated Voltage Vdc 25V | Rated Voltage Vdc 35V | Rated Voltage Vdc 50V |
| 101 (100pF) | 0402 | O/0.5+-0.05mm | K | | | C0402X101K050T |
| 121 (120pF) | 0402 | O/0.5+-0.05mm | K | | | C0402X121K050T |
| 151 (150pF) | 0201 | S/0.3+-0.03mm | K | C0201X151K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X151K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X151K025T | | C0603X151K050T |
| 181 (180pF) | 0201 | S/0.3+-0.03mm | K | C0201X181K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X181K050T |
| 221 (220pF) | 0201 | S/0.3+-0.03mm | K | C0201X221K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X221K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X221K025T | | C0603X221K050T |
| 271 (270pF) | 0201 | S/0.3+-0.03mm | K | C0201X271K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X271K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X271K025T | | C0603X271K050T |
| 331 (330pF) | 0201 | S/0.3+-0.03mm | K | C0201X331K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X331K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X331K025T | | C0603X331K050T |
| 391 (390pF) | 0201 | S/0.3+-0.03mm | K | C0201X391K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X391K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X391K025T | | C0603X391K050T |
| 471 (470pF) | 0201 | S/0.3+-0.03mm | K | C0201X471K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X471K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X471K025T | | C0603X471K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X471K025T | C0805X471K035T | C0805X471K050T |
| 561 (560pF) | 0201 | S/0.3+-0.03mm | K | C0201X561K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X561K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X561K025T | | C0603X561K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X561K025T | C0805X561K035T | C0805X561K050T |
| 681 (680pF) | 0201 | S/0.3+-0.03mm | K | C0201X681K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X681K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X681K025T | | C0603X681K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X681K025T | C0805X681K035T | C0805X681K050T |
| 102 (1nF) | 0201 | S/0.3+-0.03mm | K | C0201X102K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X102K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X102K025T | | C0603X102K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X102K025T | C0805X102K035T | C0805X102K050T |
| 122 (1.2nF) | 0201 | S/0.3+-0.03mm | K | C0201X122K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X122K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X122K025T | | C0603X122K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X122K025T | C0805X122K035T | C0805X122K050T |
| 152 (1.5nF) | 0201 | S/0.3+-0.03mm | K | C0201X152K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X152K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X152K025T | | C0603X152K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X152K025T | C0805X152K035T | C0805X152K050T |

| Cap. | Size | Thickness | Cap. Tol. | Catalog Number | | |
|----------------|------|----------------|-----------|-----------------------|-----------------------|-----------------------|
| | | | | Rated Voltage Vdc 25V | Rated Voltage Vdc 35V | Rated Voltage Vdc 50V |
| 182 (1.8nF) | 0201 | S/0.3+-0.03mm | K | C0201X182K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X182K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X182K025T | | C0603X182K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X182K025T | C0805X182K035T | C0805X182K050T |
| 222 (2.2nF) | 0201 | S/0.3+-0.03mm | K | C0201X222K025T | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X222K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X222K025T | | C0603X222K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X222K025T | C0805X222K035T | C0805X222K050T |
| 272 (2.7nF) | 0201 | S/0.3+-0.03mm | K | | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X272K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X272K025T | | C0603X272K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X272K025T | C0805X272K035T | C0805X272K050T |
| 332 (3.3nF) | 0201 | S/0.3+-0.03mm | K | | | |
| | 0402 | O/0.5+-0.05mm | K | | | C0402X332K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X332K025T | | C0603X332K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X332K025T | C0805X332K035T | C0805X332K050T |
| 392 (3.9nF) | 0402 | O/0.5+-0.05mm | K | | | C0402X392K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X392K025T | | C0603X392K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X392K025T | C0805X392K035T | C0805X392K050T |
| 472 (4.7nF) | 0402 | O/0.5+-0.05mm | K | C0402X472K025T | | C0402X472K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X472K025T | | C0603X472K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X472K025T | C0805X472K035T | C0805X472K050T |
| 562 (5.6nF) | 0402 | O/0.5+-0.05mm | K | C0402X562K025T | | C0402X562K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X562K025T | | C0603X562K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X562K025T | C0805X562K035T | C0805X562K050T |
| 682 (6.8nF) | 0402 | O/0.5+-0.05mm | K | C0402X682K025T | | C0402X682K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X682K025T | | C0603X682K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X682K025T | C0805X682K035T | C0805X682K050T |
| 822 (8.2nF) | 0402 | O/0.5+-0.05mm | K | C0402X822K025T | | C0402X822K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X822K025T | | C0603X822K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X822K025T | C0805X822K035T | C0805X822K050T |
| 103 (10nF) | 0402 | O/0.5+-0.05mm | K | C0402X103K025T | | C0402X103K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X103K025T | | C0603X103K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X103K025T | C0805X103K035T | C0805X103K050T |
| 123 (12nF) | 0402 | O/0.5+-0.05mm | K | C0402X123K025T | | C0402X123K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X123K025T | | C0603X123K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X123K025T | C0805X123K035T | C0805X123K050T |
| 153 (15nF) | 0402 | O/0.5+-0.05mm | K | C0402X153K025T | | C0402X153K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X153K025T | | C0603X153K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X153K025T | C0805X153K035T | C0805X153K050T |
| 183 (18nF) | 0402 | O/0.5+-0.05mm | K | C0402X183K025T | | C0402X183K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X183K025T | | C0603X183K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X183K025T | C0805X183K035T | C0805X183K050T |

| Cap. | Size | Thickness | Cap. Tol. | Catalog Number | | |
|----------------|------|----------------|-----------|-----------------------|-----------------------|-----------------------|
| | | | | Rated Voltage Vdc 25V | Rated Voltage Vdc 35V | Rated Voltage Vdc 50V |
| 223 (22nF) | 0402 | O/0.5+-0.05mm | K | C0402X223K025T | | C0402X223K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X223K025T | | C0603X223K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X223K025T | C0805X223K035T | C0805X223K050T |
| 273 (27nF) | 0402 | O/0.5+-0.05mm | K | C0402X273K025T | | |
| | 0603 | B/0.85+-0.15mm | K | C0603X273K025T | | C0603X273K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X273K025T | C0805X273K035T | C0805X273K050T |
| 333 (33nF) | 0402 | O/0.5+-0.05mm | K | C0402X333K025T | | |
| | 0603 | B/0.85+-0.15mm | K | C0603X333K025T | | C0603X333K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X333K025T | C0805X333K035T | C0805X333K050T |
| 393 (39nF) | 0402 | O/0.5+-0.05mm | K | C0402X393K025T | | |
| | 0603 | B/0.85+-0.15mm | K | C0603X393K025T | | C0603X393K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X393K025T | C0805X393K035T | C0805X393K050T |
| 473 (47nF) | 0402 | O/0.5+-0.05mm | K | C0402X473K025T | | |
| | 0603 | B/0.85+-0.15mm | K | C0603X473K025T | | C0603X473K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X473K025T | C0805X473K035T | C0805X473K050T |
| 563 (56nF) | 0402 | O/0.5+-0.05mm | K | | | |
| | 0603 | B/0.85+-0.15mm | K | C0603X563K025T | | C0603X563K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X563K025T | C0805X563K035T | C0805X563K050T |
| 683 (68nF) | 0402 | O/0.5+-0.05mm | K | | | |
| | 0603 | B/0.85+-0.15mm | K | C0603X683K025T | | C0603X683K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X683K025T | C0805X683K035T | C0805X683K050T |
| 823 (82nF) | 0402 | O/0.5+-0.05mm | K | | | |
| | 0603 | B/0.85+-0.15mm | K | C0603X823K025T | | C0603X823K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X823K025T | C0805X823K035T | C0805X823K050T |
| 104 (100nF) | 0201 | S/0.3+-0.03mm | K | | | |
| | 0402 | O/0.5+-0.05mm | K | | | |
| | 0603 | B/0.85+-0.15mm | K | C0603X104K025T | | C0603X104K050T |
| | 0805 | B/0.85+-0.15mm | K | C0805X104K025T | C0805X104K035T | C0805X104K050T |
| 154 (150nF) | 1206 | B/0.85+-0.15mm | K | C1206X104K025T | | C1206X104K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X154K025T | | |
| | 0805 | B/0.85+-0.15mm | K | C0805X154K025T | C0805X154K035T | C0805X154K050T |
| 224 (220nF) | 1206 | B/0.85+-0.15mm | K | C1206X154K025T | | C1206X154K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X224K025T | | |
| | 0805 | D/1.25±0.2mm | K | C0805X224K025T | C0805X224K035T | |
| 334 (330nF) | 1206 | B/0.85+-0.15mm | K | C1206X224K025T | | C1206X224K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X334K025T | | |
| | 0805 | D/1.25±0.2mm | K | C0805X334K025T | C0805X334K035T | C0805X334K050T |
| 474 (470nF) | 1206 | B/0.85+-0.15mm | K | C1206X334K025T | | C1206X334K050T |
| | 0603 | B/0.85+-0.15mm | K | C0603X474K025T | | |
| | 0805 | D/1.25±0.2mm | K | C0805X474K025T | C0805X474K035T | C0805X474K050T |
| | 1206 | B/0.85+-0.15mm | K | | | |
| | | D/1.25±0.2mm | K | C1206X474K025T | | C1206X474K050T |

| Cap. | Size | Thickness | Cap. Tol. | Catalog Number | | |
|----------------|------|---------------|-----------|-----------------------|-----------------------|-----------------------|
| | | | | Rated Voltage Vdc 25V | Rated Voltage Vdc 35V | Rated Voltage Vdc 50V |
| 684 (680nF) | 0603 | B/0.85±0.15mm | K | | | |
| | 0805 | D/1.25±0.2mm | K | C0805X684K025T | C0805X684K035T | C0805X684K050T |
| | 1206 | B/0.85±0.15mm | K | | | |
| | | D/1.25±0.2mm | K | C1206X684K025T | | C1206X684K050T |
| 824 (820nF) | 1206 | E/1.6±0.2mm | K | | | C1206X824K050T |

| Cap. | Size | Thickness | Cap. Tol. | Catalog Number | | | |
|----------------|------|----------------|-----------|------------------------|-----------------------|-----------------------|-----------------------|
| | | | | Rated Voltage Vdc 6.3V | Rated Voltage Vdc 10V | Rated Voltage Vdc 16V | Rated Voltage Vdc 25V |
| 273 (27nF) | 0402 | O/0.5+-0.05mm | M | | | C0402B273M016T | C0402B273M025T |
| 333 (33nF) | 0402 | O/0.5+-0.05mm | M | | | C0402B333M016T | C0402B333M025T |
| 393 (39nF) | 0402 | O/0.5+-0.05mm | M | | | C0402B393M016T | C0402B393M025T |
| 473 (47nF) | 0402 | O/0.5+-0.05mm | M | | | C0402B473M016T | C0402B473M025T |
| 563 (56nF) | 0402 | O/0.5+-0.05mm | M | | | C0402B563M016T | C0402B563M025T |
| 683 (68nF) | 0402 | O/0.5+-0.05mm | M | | | C0402B683M016T | C0402B683M025T |
| 823 (82nF) | 0402 | O/0.5+-0.05mm | M | | | C0402B823M016T | C0402B823M025T |
| 104 (100nF) | 0201 | S/0.3+-0.03mm | M | C0201B104M007T | | | |
| | 0402 | O/0.5+-0.05mm | M | | C0402B104M010T | C0402B104M016T | C0402B104M025T |
| | 0603 | B/0.85+-0.15mm | M | | C0603B104M010T | C0603B104M016T | C0603B104M025T |
| 154 (150nF) | 0603 | B/0.85+-0.15mm | M | | C0603B154M010T | C0603B154M016T | C0603B154M025T |
| 224 (220nF) | 0201 | S/0.3+-0.03mm | M | C0201B224M007T | | | |
| | 0402 | O/0.5+-0.05mm | M | C0402B224M007T | C0402B224M010T | | |
| | 0603 | B/0.85+-0.15mm | M | | C0603B224M010T | C0603B224M016T | C0603B224M025T |
| 334 (330nF) | 0603 | B/0.85+-0.15mm | M | | C0603B334M010T | C0603B334M016T | C0603B334M025T |
| 474 (470nF) | 0201 | S/0.3+-0.03mm | M | C0201B474M007T | | | |
| | 0402 | O/0.5+-0.05mm | M | C0402B474M007T | C0402B474M010T | | |
| | 0603 | B/0.85+-0.15mm | M | C0603B474M007T | C0603B474M010T | C0603B474M016T | C0603B474M025T |
| 684 (680nF) | 0603 | B/0.85+-0.15mm | M | C0603B684M007T | C0603B684M010T | C0603B684M016T | |

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