



*Holy Stone Enterprise Co., Ltd.*

# CERAMIC CAPACITOR CATALOG

## **NCC Series**

**Commerical grade**

**General Up to 50V**

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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

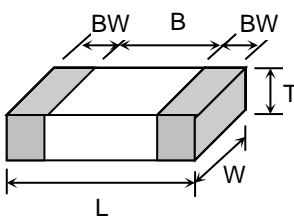
◆ Applications

- 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 : ± 30ppm/ °C , -55 °C ~ +125 °C (EIA Class I)
	X7R : ± 15% , -55 °C ~ +125 °C (EIA Class II)
	X5R : ± 15% , -55 °C ~ +85 °C (EIA Class II)
Dissipation Factor	NP0 : More than 30pF: Q <sub>z</sub> ≥ 1000 (0.001) , 30pF and below : Q <sub>z</sub> ≥ 400+20C
	X7R, X5R : Max. 0.10
Insulation Resistance	10GΩ or 500/CΩ 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±0.03 [.024±.001]	0.30±0.03 [.011 ±.001]	0.33 [.013]	0.20 [.008]	0.10 [.004]
0402	1.00±0.05 [.039±.002]	0.50±0.05 [.020 ±.002]	0.55 [.022]	0.30 [.012]	0.15 [.006]
0603	1.60±0.10 [.063±.004]	0.80±0.10 [.031 ±.004]	0.95 [.037]	0.40 [.016]	0.15 [.006]
0805	2.00±0.20 [.079±.012]	1.25±0.20 [.049 ±.008]	1.45 [.057]	0.70 [.028]	0.20 [.008]
1206	3.20±0.30 [.126±.012]	1.60±0.20 [.063±.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 : 10×10 <sup>2</sup> 473 : 47×10 <sup>3</sup> 104 : 10×10 <sup>4</sup>	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
	0402	O/0.5+-0.05mm	J			C0402N151J050T
151 (150pF)	0603	B/0.85+-0.15mm	J			C0603N151J050T
	0805	B/0.85+-0.15mm	J			C0805N151J050T
	0402	O/0.5+-0.05mm	J			C0402N181J050T
	0603	B/0.85+-0.15mm	J			C0603N181J050T
181 (180pF)	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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