

Commercial Capacitors

Presidio provides high quality ceramic capacitors for a wide variety of commercial applications. Every component must pass the test criteria listed below.

Quality Assurance Provisions

Every lot undergoes the following inspection and tests:

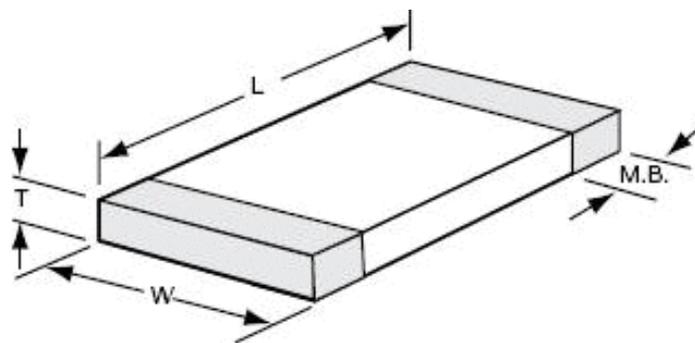
- **Capacitance:** All parts are tested at 25°C and 1VACRMS in accordance with method 305 of MIL-STD 202. Y5V and low voltage parts follow EIA guidelines.

- **Dissipation Factor (DF):**

Voltage Rating	NPO	BX	X7R	Y5V
10	N/A	2.5%	5%	10%
16 / 25	.15%	2.5%	3.5%	7%
≥ 50	.15%	2.5%	2.5%	5%

- **Dielectric Withstanding Voltage (DWV):** All parts are tested to EIA/MIL standards.
- **Insulation Resistance (IR @ 25°C):** All parts are tested at 25°C and rated voltage in accordance with method 302 of MIL-STD-202. The minimum IR required is 100,000 megohms or 1,000 megohm-microfarads.
- **Visual:** Performed on pieces in accordance with Presidio internal workmanship criteria.
- **Mechanical:** Level 1 AQL 1% in accordance with Presidio's catalog.
- **Operating Temperature Range:** -55°C to +125°C

Dimensions



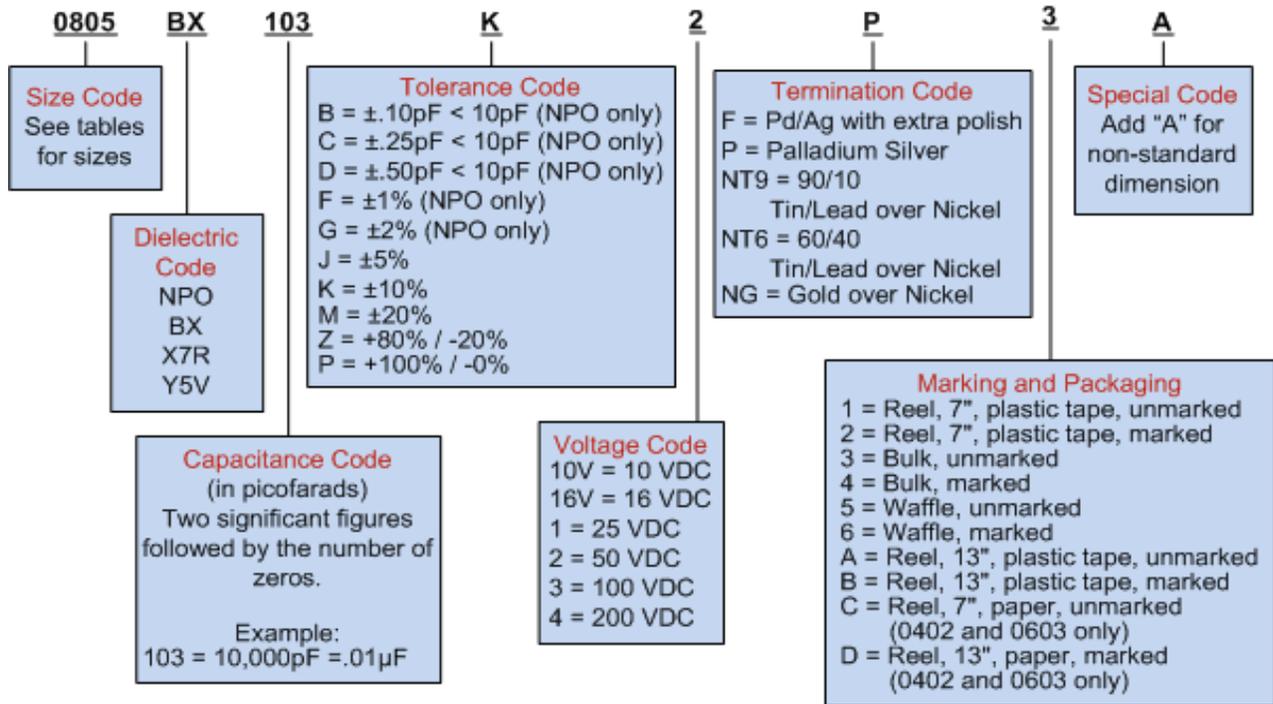
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SIZE	L inches (mm)	W inches (mm)	THICKNESS MAX. (T) inches (mm)	METALIZATION BAND (M.B.) inches (mm)	WVDC	DIELECTRIC			
						NPO	BX	X7R	Y5V
0402	0.040 (1.02) ± 0.004 (0.10)	0.020 (0.51) ± 0.004 (0.10)	0.024 (0.61)	0.004 (0.10) min. band 0.015 (0.38) min. space	10 V	390 pF	6800 pF	0.012 µF	0.047 µF
					16 V	200 pF	3300 pF	6800 pF	0.027 µF
					25 V	120 pF	2200 pF	4700 pF	0.018 µF
					50 V	100 pF	1800 pF	3900 pF	0.012 µF
					100 V	39 pF	680 pF	1200 pF	5600 pF
0403	0.040 (1.02) ± 0.010 (0.25)	0.030 (0.76) ± 0.010 (0.25)	0.030 (0.76)	0.004 (0.10) min. band 0.015 (0.38) min. space	10 V	1200 pF	0.020 µF	0.047 µF	0.12 µF
					16 V	560 pF	0.012 µF	0.022 µF	0.068 µF
					25 V	390 pF	6800 pF	0.015 µF	0.047 µF
					50 V	330 pF	5600 pF	0.012 µF	0.033 µF
					100 V	68 pF	1000 pF	2200 pF	6800 pF
0504	0.050 (1.27) ± 0.010 (0.25)	0.040 (1.02) ± 0.010 (0.25)	0.040 (1.02)	0.005 (0.13) min. band 0.015 (0.38) min. space	10 V	2700 pF	0.068 µF	0.12 µF	0.39 µF
					16 V	1800 pF	0.039 µF	0.082 µF	0.22 µF
					25 V	1500 pF	0.027 µF	0.047 µF	0.12 µF
					50 V	1200 pF	0.020 µF	0.039 µF	0.082 µF
					100 V	180 pF	2700 pF	6800 pF	0.018 µF
0603	0.063 (1.60) ± 0.006 (0.15)	0.032 (0.81) ± 0.006 (0.15)	0.035 (0.89)	0.005 (0.13) min. band 0.025 (0.64) min. space	10 V	2200 pF	0.039 µF	0.10 µF	0.22 µF
					16 V	1000 pF	0.020 µF	0.043 µF	0.12 µF
					25 V	680 pF	0.015 µF	0.027 µF	0.082 µF
					50 V	560 pF	0.010 µF	0.022 µF	0.056 µF
					100 V	100 pF	1800 pF	3300 pF	0.010 µF
0805	0.080 (2.03) ± 0.010 (0.25)	0.050 (1.27) ± 0.010 (0.25)	0.050 (1.27)	0.020 (0.51) ± 0.010 (0.25)	10 V	4700 pF	0.1 µF	0.22 µF	0.68 µF
					16 V	3300 pF	0.075 µF	0.15 µF	0.47 µF
					25 V	2700 pF	0.047 µF	0.10 µF	0.27 µF
					50 V	2200 pF	0.039 µF	0.10 µF	0.18 µF
					100 V	560 pF	8200 pF	0.022 µF	0.056 µF
1206	0.126 (3.20) ± 0.008 (0.20)	0.063 (1.60) ± 0.008 (0.20)	0.059 (1.50)	0.020 (0.51) ± 0.010 (0.25)	10 V	0.012 µF	0.25 µF	0.56 µF	1.8 µF
					16 V	8200 pF	0.2 µF	0.39 µF	1.2 µF
					25 V	6800 pF	0.15 µF	0.27 µF	0.82 µF
					50 V	5600 pF	0.1 µF	0.22 µF	0.56 µF
					100 V	1500 pF	0.027 µF	0.068 µF	0.18 µF
					200 V	820 pF	0.012 µF	0.027 µF	
1209	0.125 (3.18) ± 0.010 (0.25)	0.095 (2.41) ± 0.010 (0.25)	0.065 (1.65)	0.020 (0.51) ± 0.010 (0.25)	10 V	0.018 µF	0.39 µF	0.82 µF	2.5 µF
					16 V	0.012 µF	0.27 µF	0.68 µF	1.8 µF
					25 V	0.010 µF	0.22 µF	0.47 µF	1.5 µF
					50 V	8200 pF	0.18 µF	0.39 µF	1.2 µF
					100 V	3900 pF	0.068 µF	0.15 µF	0.47 µF
					200 V	1800 pF	0.033 µF	0.068 µF	
1712	0.175 (4.45) ± 0.013 (0.33)	0.125 (3.18) ± 0.010 (0.25)	0.065 (1.65)	0.020 (0.51) ± 0.010 (0.25)	10 V	0.039 µF	0.82 µF	1.8 µF	5.6 µF
					16 V	0.027 µF	0.56 µF	1.2 µF	3.9 µF
					25 V	0.022 µF	0.47 µF	1.0 µF	2.7 µF
					50 V	0.015 µF	0.27 µF	0.68 µF	1.8 µF
					100 V	6800 pF	0.12 µF	0.27 µF	0.82 µF
					200 V	3300 pF	0.056 µF	0.12 µF	
1725	0.175 (4.45) ± 0.013 (0.33)	0.250 (6.35) ± 0.018 (0.46)	0.065 (1.65)	0.020 (0.51) ± 0.010 (0.25)	10 V	0.082 µF	2.0 µF	3.9 µF	12.0 µF
					16 V	0.068 µF	1.5 µF	3.3 µF	8.2 µF
					25 V	0.056 µF	1.2 µF	2.2 µF	6.8 µF
					50 V	0.039 µF	0.82 µF	1.8 µF	4.7 µF
					100 V	0.018 µF	0.33 µF	0.68 µF	2.0 µF
					200 V	8200 pF	0.12 µF	0.27 µF	
2225	0.220 (5.59) ± 0.015 (0.38)	0.250 (6.35) ± 0.018 (0.46)	0.080 (2.03)	0.020 (0.51) ± 0.010 (0.25)	10 V	0.10 µF	2.2 µF	4.7 µF	15.0 µF
					16 V	0.082 µF	1.8 µF	3.9 µF	12.0 µF
					25 V	0.068 µF	1.5 µF	3.3 µF	10.0 µF
					50 V	0.056 µF	1.0 µF	2.2 µF	6.8 µF
					100 V	0.027 µF	0.47 µF	1.0 µF	2.7 µF
					200 V	0.012 µF	0.22 µF	0.47 µF	



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How To Order



Consult factory for other voltages, capacitance options and parts outside a given range.

The above example is of Presidio's Manufacturing part number.

If a shorter part number is desired, use our conversion tool to create our Global part number.



PRESIDIO COMPONENTS, INC.

7169 Construction Court, San Diego, CA 92121 USA • Tel: 858-578-9390 • Fax: 800-538-3880 or 858-578-6225
Web: www.presidiocomponents.com • Email: info@presidiocomponents.com