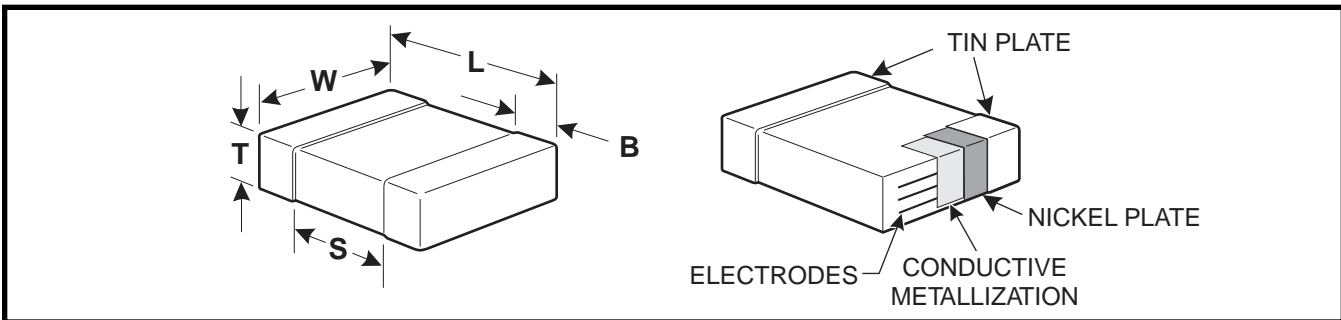


FEATURES

- C0G (NP0), X7R, Z5U and Y5V Dielectrics
- 10, 16, 25, 50, 100 and 200 Volts
- Standard End Metallization: Tin-plate over nickel barrier
- Available Capacitance Tolerances: ± 0.10 pF; ± 0.25 pF; ± 0.5 pF; $\pm 1\%$; $\pm 2\%$; $\pm 5\%$; $\pm 10\%$; $\pm 20\%$; and $+80\%$ - 20%
- Tape and reel packaging per EIA481-1. (See page 51 for specific tape and reel information.) Bulk Cassette packaging (0402, 0603, 0805 only) per IEC60286-6 and EIAJ 7201.

CAPACITOR OUTLINE DRAWINGS



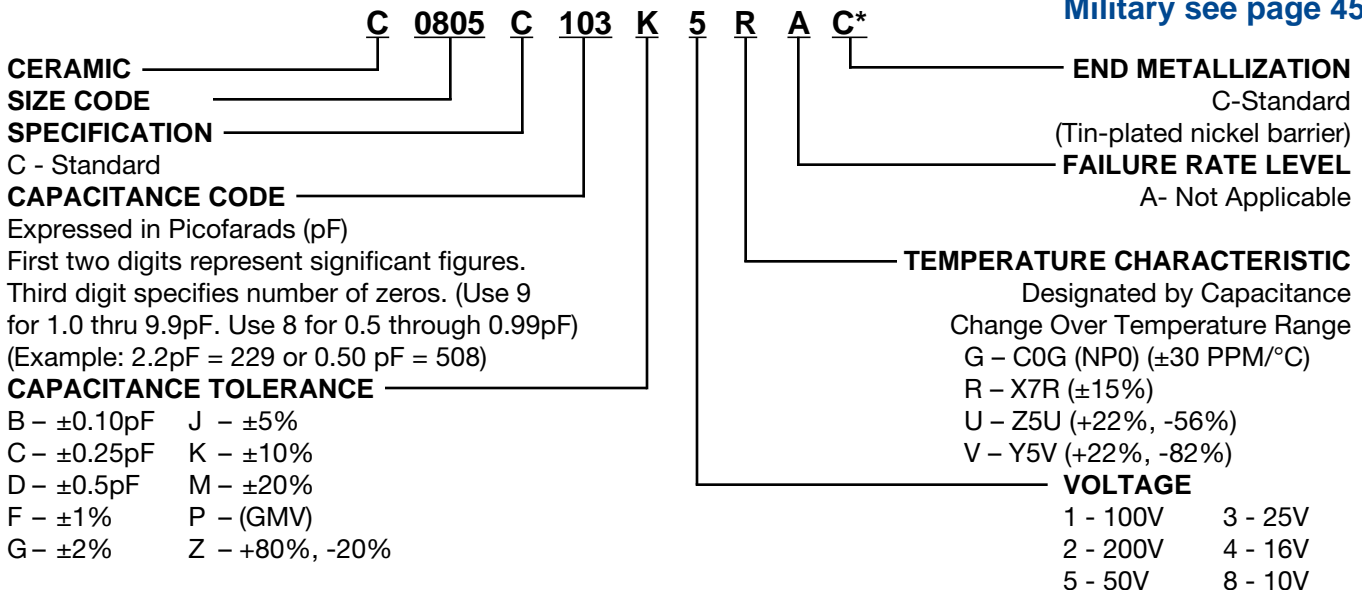
DIMENSIONS—MILLIMETERS AND (INCHES)

EIA SIZE CODE	METRIC SIZE CODE (Ref only)	L # LENGTH	W # WIDTH	T (EIA) # THICKNESS MAX.	B BANDWIDTH	S MIN. SEPARATION	MOUNTING TECHNIQUE
0402*	1005	1.0 (.04) \pm .05 (.002)	0.5 (.02) \pm .05 (.002)	0.55 (.022)	0.20 (0.008)-0.40 (0.016)	0.3 (.012)	Solder Reflow
0603*	1608	1.6 (.063) \pm 0.15 (.006)	0.8 (.032) \pm 0.15 (.006)	0.9 (.035)	0.35 (.014) \pm 0.15 (.006)	0.7 (.028)	Solder Wave or Solder Reflow
0805*	2012	2.0 (.079) \pm 0.2 (.008)	1.25 (.049) \pm 0.2 (.008)	1.3 (.051)	0.5 (.02) \pm .25 (.010)	0.75 (.030)	
1206*	3216	3.2 (.126) \pm 0.2 (.008)	1.6 (.063) \pm 0.2 (.008)	1.5 (.059)	0.5 (.02) \pm .25 (.010)	N/A	
1210*	3225	3.2 (.126) \pm 0.2 (.008)	2.5 (.098) \pm 0.2 (.008)	1.7 (.067)	0.5 (.02) \pm .25 (.010)	N/A	Solder Reflow
1812	4532	4.5 (.177) \pm 0.3 (.012)	3.2 (.126) \pm 0.3 (.012)	1.7 (.067)	0.6 (.024) \pm .35 (.014)	N/A	
1825*	4564	4.5 (.177) \pm 0.3 (.012)	6.4 (.252) \pm 0.4 (.016)	1.7 (.067)	0.6 (.024) \pm .35 (.014)	N/A	
2220	5650	5.6 (.220) \pm 0.4 (.016)	5.0 (.197) \pm 0.4 (.016)	1.8 (.071)	0.6 (.024) \pm .35 (.014)	N/A	
2225	5664	5.6 (.220) \pm 0.4 (.016)	6.3 (.248) \pm 0.4 (.016)	2.0 (.079)	0.6 (.024) \pm .35 (.014)	N/A	

* Note: Indicates EIA Preferred Case Sizes

Note: Different tolerances apply for 0402, 0603, and 0805 packaged in bulk cassette.

CAPACITOR ORDERING INFORMATION (Standard Chips - For Military see page 45)



* Part Number Example: C0805C103K5RAC (14 digits - no spaces)

COG CAPACITANCE RANGE – 1210, 1812, 1825, 2220, 2225

CAP. PF	CAP. TOL.	C1210*			C1812*			C1825*			C2220			C2225		
		50V	100V	200V	50V	100V	200V	50V	100V	200V	50V	100V	200V	50V	100V	200V
10.0	C, D J, K	100	100	100												
12.0	C, D J, K	120	120	120												
15.0	C, D G, J, K	150	150	150												
18.0	C, D G, J, K	180	180	180												
22.0	C, D G, J, K	220	220	220												
27.0	D, F, G, J, K	270	270	270												
33.0	D, F, G, J, K	330	330	330												
39.0	D, F, G, J, K	390	390	390												
47.0	D, F, G, J, K	470	470	470												
56.0	F, G, J, K	560	560	560												
68.0	F, G, J, K	680	680	680												
82.0	F, G, J, K	820	820	820												
100.0	F, G, J, K	101	101	101												
120.0	F, G, J, K	121	121	121												
150.0	F, G, J, K	151	151	151												
180.0	F, G, J, K	181	181	181												
220.0	F, G, J, K	221	221	221												
270.0	F, G, J, K	271	271	271												
330.0	F, G, J, K	331	331	331												
390.0	F, G, J, K	391	391	391												
470.0	F, G, J, K	471	471	471	471	471	471									
560.0	F, G, J, K	561	561	561	561	561	561									
680.0	F, G, J, K	681	681	681	681	681	681									
820.0	F, G, J, K	821	821	821	821	821	821									
1000.0	F, G, J, K	102	102	102	102	102	102									
1200.0	F, G, J, K	122	122	122	122	122	122									
1500.0	F, G, J, K	152	152	152	152	152	152									
1800.0	F, G, J, K	182	182	182	182	182	182									
2200.0	F, G, J, K	222	222	222	222	222	222									
2700.0	F, G, J, K	272	272	272	272	272	272									
3300.0	F, G, J, K	332	332	332	332	332	332									
3900.0	F, G, J, K	392	392	392	392	392	392	392	392	392						
4700.0	F, G, J, K	472	472	472	472	472	472	472	472	472				472	472	472
5600.0	F, G, J, K	562	562	562	562	562	562	562	562	562				562	562	562
6800.0	F, G, J, K	682	682	682	682	682	682	682	682	682	682	682		682	682	682
8200.0	F, G, J, K	822	822	822	822	822	822	822	822	822	822	822		822	822	822
10,000.0	F, G, J, K	103			103	103		103	103	103	103	103		103	103	103
12,000.0	F, G, J, K	123						123	123	123				123	123	123
15,000.0	F, G, J, K							153	153	153				153	153	153
18,000.0	F, G, J, K							183	183		183	183		183	183	
22,000.0	F, G, J, K							223	223		223			223	223	
27,000.0	F, G, J, K							273	273		273			273	273	
33,000.0	F, G, J, K													333		