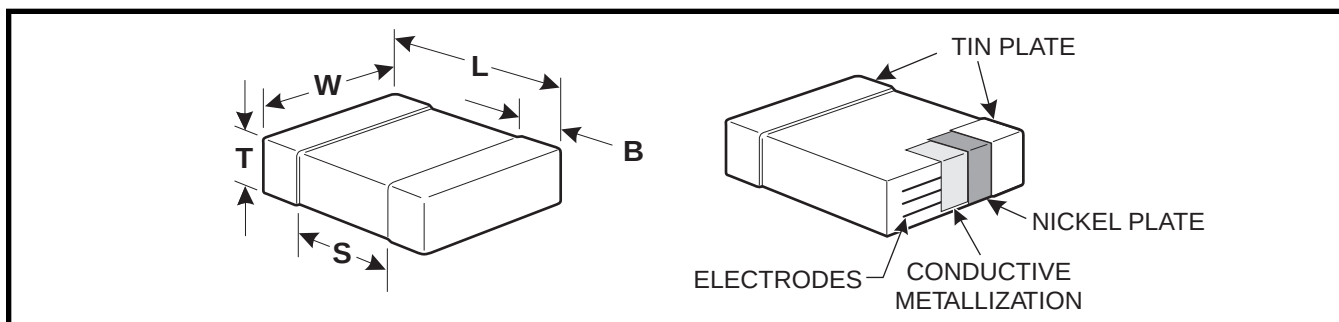


FEATURES

- C0G (NP0), X7R, Z5U and Y5V Dielectrics
- 10, 16, 25, 50, 100 and 200 Volts
- Standard End Metalization: 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



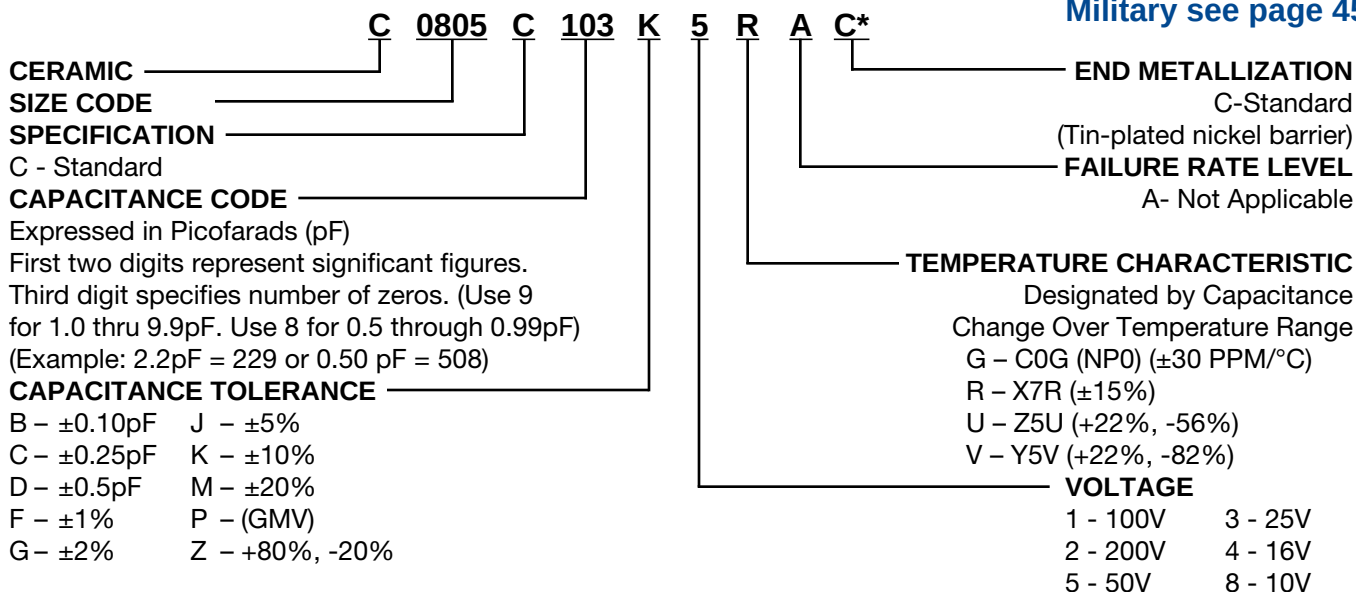
DIMENSIONS—MILLIMETERS AND (INCHES)

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) ± .05(.002)	0.5 (.02) ± .05 (.002)	0.55 (.022)	0.20 (0.008)-0.40 (0.016)	0.3 (.012)	Solder Reflow
0603*	1608	1.6 (.063) ± 0.15 (.006)	0.8 (.032) ± 0.15 (.006)	0.9 (.035)	0.35 (.014) ±0.15 (.006)	0.7 (.028)	Solder Wave or Solder Reflow
0805*	2012	2.0 (.079) ± 0.2 (.008)	1.25 (.049) ± 0.2 (.008)	1.3 (.051)	0.5 (.02) ±.25 (.010)	0.75 (.030)	
1206*	3216	3.2 (.126) ± 0.2 (.008)	1.6 (.063) ± 0.2 (.008)	1.5 (.059)	0.5 (.02) ±.25 (.010)	N/A	
1210*	3225	3.2 (.126) ± 0.2 (.008)	2.5 (.098) ± 0.2 (.008)	1.7 (.067)	0.5 (.02) ±.25 (.010)	N/A	
1812	4532	4.5 (.177) ± 0.3 (.012)	3.2 (.126) ± 0.3 (.012)	1.7 (.067)	0.6 (.024) ±.35 (.014)	N/A	
1825*	4564	4.5 (.177) ± 0.3 (.012)	6.4 (.252) ± 0.4 (.016)	1.7 (.067)	0.6 (.024) ±.35 (.014)	N/A	Solder Reflow
2220	5650	5.6 (.220) ± 0.4 (.016)	5.0 (.197) ± 0.4 (.016)	1.8 (.071)	0.6 (.024) ±.35 (.014)	N/A	
2225	5664	5.6 (.220) ± 0.4 (.016)	6.3 (.248) ± 0.4 (.016)	2.0 (.079)	0.6 (.024) ±.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)**

C0G CAPACITANCE RANGE – 0402, 0603, 0805, 1206

CAP. PF	CAP. TOL.	C0402*				C0603*				C0805*				C1206*			
		10V	16V	25V	50V	25V	50V	100V	200V	25V	50V	100V	200V	25V	50V	100V	200V
.50	C,D	508	508	508	508		508	508	508		508	508	508				
.75	C,D	758	758	758	758		758	758	758		758	758	758				
1.0	C,D	109	109	109	109		109	109	109		109	109	109	109	109	109	109
1.1	C,D	119	119	119	119		119	119	119		119	119	119		109	119	119
1.2	C,D	129	129	129	129		129	129	129		129	129	129		129	129	129
1.3	C,D	139	139	139	139		139	139	139		139	139	139		139	139	139
1.5	C,D	159	159	159	159		159	159	159		159	159	159		159	159	159
1.6	C,D	169	169	169	169		169	169	169		169	169	169		169	169	169
1.8	C,D	189	189	189	189		189	189	189		189	189	189		189	189	189
2.0	C,D	209	209	209	209		209	209	209		209	209	209		209	209	209
2.2	C,D	229	229	229	229		229	229	229		229	229	229		229	229	229
2.4	C,D	249	249	249	249		249	249	249		249	249	249		249	249	249
2.7	C,D	K	279	279	279		279	279	279		279	279	279		279	279	279
3.0	C,D	K	309	309	309		309	309	309		309	309	309		309	309	309
3.3	C,D	K	339	339	339		339	339	339		339	339	339		339	339	339
3.6	C,D	K	369	369	369		369	369	369		369	369	369		369	369	369
3.9	C,D	K	399	399	399		399	399	399		399	399	399		399	399	399
4.3	C,D	K	439	439	439		439	439	439		439	439	439		439	439	439
4.7	C,D	K	479	479	479		479	479	479		479	479	479		479	479	479
5.1	C,D	K	519	519	519		519	519	519		519	519	519		519	519	519
5.6	C,D	J,K	569	569	569		569	569	569		569	569	569		569	569	569
6.2	C,D	J,K	629	629	629		629	629	629		629	629	629		629	629	629
6.8	C,D	J,K	689	689	689		689	689	689		689	689	689		689	689	689
7.5	C,D	J,K	759	759	759		759	759	759		759	759	759		759	759	759
8.2	C,D	J,K	829	829	829		829	829	829		829	829	829		829	829	829
9.1	C,D	J,K	919	919	919		919	919	919		919	919	919		919	919	919
10.0	C,D	J,K	100	100	100		100	100	100		100	100	100		100	100	100
11.0	C,D	J,K	110	110	110		110	110	110		110	110	110		110	110	110
12.0	C,D	J,K	120	120	120		120	120	120		120	120	120		120	120	120
13.0	C,D	J,K	130	130	130		130	130	130		130	130	130		130	130	130
15.0	C,D	G,J,K	150	150	150		150	150	150		150	150	150		150	150	150
16.0	C,D	G,J,K	160	160	160		160	160	160		160	160	160		160	160	160
18.0	C,D	G,J,K	180	180	180		180	180	180		180	180	180		180	180	180
20.0	C,D	G,J,K	200	200	200		200	200	200		200	200	200		200	200	200
22.0	C,D	G,J,K	220	220	220		220	220	220		220	220	220		220	220	220
24.0	C,D	G,J,K	240	240	240		240	240	240		240	240	240		240	240	240
27.0	D,F,G,J,K	270	270	270	270		270	270	270		270	270	270		270	270	270
30.0	D,F,G,J,K	300	300	300	300		300	300	300		300	300	300		300	300	300
33.0	D,F,G,J,K	330	330	330	330		330	330	330		330	330	330		330	330	330
36.0	D,F,G,J,K	360	360	360	360		360	360	360		360	360	360		360	360	360
39.0	D,F,G,J,K	390	390	390	390		390	390	390		390	390	390		390	390	390
43.0	D,F,G,J,K	430	430	430	430		430	430	430		430	430	430		430	430	430
47.0	D,F,G,J,K	470	470	470	470		470	470	470		470	470	470		470	470	470
51.0	D,F,G,J,K	510	510	510	510		510	510	510		510	510	510		510	510	510
56.0	F,G,J,K	560	560	560	560		560	560	560		560	560	560		560	560	560
62.0	F,G,J,K	620	620	620	620		620	620	620		620	620	620		620	620	620
68.0	F,G,J,K	680	680	680	680		680	680	680		680	680	680		680	680	680
75.0	F,G,J,K	750	750	750	750		750	750	750		750	750	750		750	750	750
82.0	F,G,J,K	820	820	820	820		820	820	820		820	820	820		820	820	820
91.0	F,G,J,K	910	910	910	910		910	910	910		910	910	910		910	910	910
100.0	F,G,J,K	101	101	101			101	101	101		101	101	101		101	101	101
110.0	F,G,J,K						111	111	111		111	111	111		111	111	111
120.0	F,G,J,K						121	121	121		121	121	121		121	121	121
130.0	F,G,J,K						131	131	131		131	131	131		131	131	131
150.0	F,G,J,K						151	151	151		151	151	151		151	151	151
160.0	F,G,J,K						161	161	161		161	161	161		161	161	161
180.0	F,G,J,K						181	181	181		181	181	181		181	181	181
200.0	F,G,J,K						201	201	201		201	201	201		201	201	201
220.0	F,G,J,K						221	221	221		221	221	221		221	221	221
240.0	F,G,J,K						241	241	241		241	241	241		241	241	241
270.0	F,G,J,K						271	271	271		271	271	271		271	271	271
300.0	F,G,J,K						301	301	301		301	301	301		301	301	301
330.0	F,G,J,K						331	331	331		331	331	331		331	331	331
360.0	F,G,J,K						361	361	361		361	361	361		361	361	361
390.0	F,G,J,K						391	391	391		391	391	391		391	391	391
430.0	F,G,J,K						431	431	431		431	431	431		431	431	431
470.0	F,G,J,K						471	471	471		471	471	471		471	471	471
510.0	F,G,J,K						511	511	511		511	511	511		511	511	511
560.0	F,G,J,K						561	561	561		561	561	561		561	561	561
620.0	F,G,J,K						621	621	621		621	621	621		621	621	621
680.0	F,G,J,K						681	681	681		681	681	681		681	681	681
750.0	F,G,J,K						751	751	751		751	751	751		751	751	751
820.0	F,G,J,K						821	821	821		821	821	821		821	821	821
910.0	F,G,J,K						911	911	911		911	911	911		911	911	911
1000.0	F,G,J,K						102	102	102		102	102	102		102	102	102
1100.0	F,G,J,K						112	112	112		112	112	112		112	112	112
1200.0	F,G,J,K						122	122	122		122	122	122		122	122	122
1300.0	F,G,J,K						132	132	132		132	132	132		132	132	132
1500.0	F,G,J,K						152	152	152		152	152	152		152	152	152
1600.0	F,G,J,K						162	162	162		162	162	162		162	162	162
1800.0	F,G,J,K						182	182									

C0G 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	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	123	123
15,000.0	F, G, J, K							153	153	153	153	153		153	153	153
18,000.0	F, G, J, K							183	183	183	183	183		183	183	183
22,000.0	F, G, J, K							223	223	223	223	223		223	223	223
27,000.0	F, G, J, K							273	273	273	273	273		273	273	273
33,000.0	F, G, J, K													333		