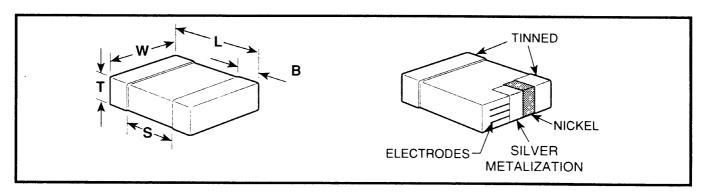
KEMET

CERAMIC CHIP/STANDARD

FEATURES

- C0G (NP0), X7R, Z5U and Y5V dielectrics
- 10, 16, 25, 50, 100 and 200 Volts
- End Metalization tin-plate over nickel barrier
- ±0.10 pF; ±0.25 pF; ±0.5 pF; ±1%; ±2%; ±5%; ±10%; ±20%; and +80%-20% capacitance tolerance available
- Tape and Reel Packaging per EIA 481-1.
 (See page 101-103 for specific tape and reel information)
 Bulk Cassette Packaging (0402, 0603, 0805) per IEC286-6 and EIAJ7201

CAPACITOR OUTLINE DRAWINGS



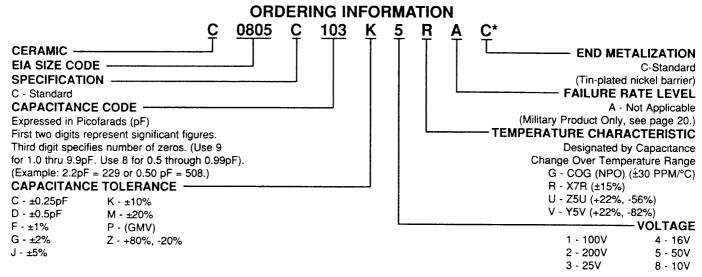
DIMENSIONS-MILLIMETERS AND (INCHES)

		(**************************************													
METRIC SIZE CODE	EIA SIZE CODE	L LENGTH	W WIDTH	T THICKNESS MAX.	B BANDWIDTH	S MIN. SEPARATION	MOUNTING TECHNIQUE								
1005	0402*	1.0 (04) ± 05 (.002)	0.5 (.02) ± 05 (002)	0 55 (022)	0.20 (008) - 0.40 (0 016)	0.3 (012)	Solder Reflow								
1608	0603*	1.6 (063) ± 0 15 (006)	0 8 (032) ± 0 15 (006)	0 9 (.035)	0 35 (014) ± 0 15 (006)	0.7 (028)									
2012	0805*	20(079)±02(008)	1 25 (.049) ± 0.2 (.008)	1 3 (.051)	05(02) ± 25(010)	0 75 (030)	Solder Wave								
3216	1206*	3 2 (126) ± 0 2 (008)	1.6 (063) ± 0 2 (008)	1 5 (059)	0 5 (02) ± .25 (010)	N/A	or								
3225	1210	3.2 (126) ± 0.2 (.008)	25 (098) ± 0.2 (.008)	1 7 (.067)	05 (02) ± 25 (010)	N/A	Solder Reflow								
4532	1812*	4.5 (177) ± 0.3 (012)	3.2 (126) ± 0.3 (.012)	1 7 (067)	06 (024) ± 35 (014)	N/A									
4564	1825°	4.5 (.177) ± 0.3 (.012)	6 4 (.252) ± 0 4 (016)	1 7 (067)	06 (024) ± 35 (014)	N/A	Solder								
5650	2220	5.6 (.220) ± 0 4 (.016)	5 0 (197) ± 0.4 (.016)	1.8 (.071)	0.6 (024) ± 35 (014)	N/A	Reflow								
5664	2225	5.6 (220) ± 0 4 (.016)	6 3 (.248) ± 0 4 (016)	2.0 (079)	0 6 (.024) ± .35 (.014)	N/A									

Metric size code given for reference only.

Exterided value maximum thickness 1.3 (.051)

Indicates EIA preferred case sizes



*Part number example: C0805C103K5RAC (14 digits - no spaces)

COG CAPACITANCE RANGE - C0402, C0603, C0805, C1206 & C1210																			
CAP.		CAP.	L	C0402*			C0603*			Π	C0805*				C1206*		C121	C1210°	
PF	KEMET PART NUMBER	TOL.	100	16V	25V	50V	50V	100V	200V	501	1000	200V	50V	100	200V	50V		/ 200V	
	C(1)C508 (2) (3) GAG		508	508	508	508	508	508	508		508	508			1	1	1.00.	12001	
75			758	758	758	758	758	758	758	758	758	758	1	1	 	+	+	+	
	C (1)C109 (2) (3) GA(109	109	109	109	109	109	109	109	109	109	109	109	109	+	 	+	
	C (1)C129 (2) (3) GAG		129	129	129	129	129	129	129	129		129	129		129	+	+	+	
	C (1)C159 (2) (3) GA(159	159	159	159	159	159	159	159		159	159		159	 	\vdash	+	
	C (1)C189 (2) (3) GAC		189	189	189			189	189	189	189	189	189	189	189	+	_	+	
	C (1)C229 (2) (3) GA(229		229	229	229	229	229	229	229		229	+	 	+	
	C (1)C279 (2) (3) GAC		279	279	279	279	279	279	279	279	279	279	279	279	279		 	+	
	C(1)C339 (2) (3) GAC				339			339	339	339	339	339	339	339	339	T	_	†	
	C (1)C399 (2) (3) GAC				399		399	399	399	399	399	399	399	399	399	T			
	C (1)C479 (2) (3) GAC				479		479	479	479	479	479	479	479	479	479	 	 	_	
	C (1)C569 (2) (3) GAC				569		569	569	569	569	569	569	569	569	569			1	
	C (1)C689 (2) (3) GAC						689		689	689	689	689	689	689	689			1	
	C(1)C829 (2) (3) GAC				829		829	829	829	829	829	829	829	829	829	<u> </u>			
10 0					100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	C(1)C120 (2) (3) GAC				120		120	120	120		120	120	120	120	120	120	120	120	
15 0					150	150	150	150	150		150	150	150	150	150	150	150	150	
18.0					180		180	180	180		180	180	180	180	180	180	180	180	
22 0 27 0					220	220	220		220		220	220	220	220	220	220	220	220	
						270	270	270	270		270	270	270	270	270	270	270	270	
33 0							330	330	330		330	330	330	330	330	330	330	330	
39 0 47 0							390	390	390	390		390	390	390	390	390	390	390	
56 0							470	470	470	470		470	470	470	470	470	470	470	
68.0							560	560	560		560	560	560	560	560	560	560	560	
82.0			_			680	680	680	680		680	680	680	680	680	680	680	680	
100.0							820	820	820	820		820	820	820	820	820	820	820	
120.0			101	101	101		101	101		101		101	101	101	101	101	101	101	
150.0		F,G,J,K F,G,J,K	 				121	121		121		121	121	121	121	121	121	121	
180.0					-		151	151			151	151	151	151	151	151	151	151	
	C (1) C221 (2) (3) GAC		-		-		181 221	181			181	181	181	181	181	181	181	181	
270.0			-				271				221	221	221	221	221	221	221	221	
	C (1)C331 (2) (3) GAC						331				271		271	271	271	271	271	271	
	C (1)C391 (2) (3) GAC	F,G,J,K					391				331	331#		331	331	331	331	331	
470.0		F,G,J,K				-	471				391	391#		391	391	391	391	391	
560 0		F,G,J,K		_			71 1				471 561	471#	561	471	471	471	471	471	
680 0		F,G,J,K	\Box		-						681#		681	561 681	561 681	561	561	561	
820 0 (C(1)C821 (2) (3) GAC	F,G,J,K					-	-			821#		821	821	821	681 821	681 821	681	
1000.0	C (1)C102 (2) (3) GAC	F,G,J,K		\neg			$\neg \uparrow$			_	102#		102	102	102	102	102	821 102	
1200 0	C (1)C122 (2) (3) GAC	F,G,J,K						-		122			122	122	122	122	122	122	
1500 0		F,G,J,K								152			152	152	152	152	152	152	
1800.0	C (1)C182 (2) (3) GAC	F,G,J,K	\neg							182			182	182	182	182	182	182	
2200.0		F,G,J,K											222	222	102	222	222	222	
2700.0	== 1 / = = - 1 / 1 / 1 0 / 10 / 10	F,G,J,K											272	272		272	272	272	
3300 0 C		F,G,J,K						1					332	332		332	332	332	
3900.0		F,G,J,K	T										392	392		392	392	 H	
4700 0 C	// /_/ (0) 0//0	F,G,J,K											472		$\neg \neg$	472	472	\dashv	
5600 0 C		F,G,J,K											562			562	562	\neg	
6800 0		F,G,J,K	\bot													682	682	-	
8200 0 0		F,G,J,K														822			
0,000 0		F,G,J,K				I		I								103		$\neg \neg$	
2,000.0	C (1)C123 (2) (3) GAC	F,G,J,K		- 1	Į		T	T	T							123			

C1812, C1825, C2220 & C2225

CAP. PF			CAP. TOL.	C1812*				C1825	j*		C2220)	C2225			
	KEME	PART NUMBER		50V	100V	200V	50V	100V	200V	50V	100V	200V	50V	100V	200V	
220 0	C(1)	_C221 (2) (3) GAC	F,G,J,K											1.001		
270.0		_C271 (2) (3) GAC	F,G,J,K	1									_			
330 0	C(1)	C331 (2) (3) GAC	F,G,J,K	1								i				
390 0	C(1)	C391 (2) (3) GAC	F,G,J,K				T -		_				 		_	
470 0	C(1)_	_C471 (2) (3) GAC	F,G,J,K	471	471	471							_	_	· · · · ·	
		_C561 (2) (3) GAC	F,G,J,K	561	561	561							 		<u> </u>	
680 0		_C681 (2) (3) GAC	F,G,J,K	681	681	681									 	
820.0		_C821 (2) (3) GAC	F,G,J,K	821	821	821							\vdash			
1000.0	C(1)	_C102 (2) (3) GAC	F,G,J,K	102	102	102							\vdash		 	
1200 0	C(1)_	_C122 (2) (3) GAC	F,G,J,K	122	122	122										
1500.0	C (1)	_C152 (2) (3) GAC	F,G,J,K	152	152	152							_			
1800.0	C(1)	_C182 (2) (3) GAC	F,G,J,K	182	182	182										
2200 0	C(1)_	_C222 (2) (3) GAC	F,G,J,K	222	222	222										
2700 0	C(1)_	C272 (2) (3) GAC	F,G,J,K	272	272	272										
3300.0	C(1)	_C332 (2) (3) GAC	F,G,J,K	332	332	332										
3900 0	C(1)_	_C392 (2) (3) GAC	F,G,J,K	392	392	392	392	392	392							
4700.0	C(1)_	_C472 (2) (3) GAC	F,G,J,K	472	472	472	472	472	472				472	472	472	
5600 0	C(1)_	_C562 (2) (3) GAC	F,G,J,K	562	562	562	562	562	562				562	562	562	
6800 0	C(1)_	_C682 (2) (3) GAC	F,G,J,K	682	682	682	682	682	682	682	682		682	682	682	
8200.0	C(1)_	_C822 (2) (3) GAC	F,G,J,K	822	822		822	822		822	822		822	822	822	
10,000 0	C(1)_	_C103 (2) (3) GAC	F,G,J,K	103	103		103	103	103	103	103		103	103	103	
12,000.0	C(1)_	_C123 (2) (3) GAC	F,G,J,K				123	123	123	123	123		123	123	123	
15,000 0	C(1)_	_C153 (2) (3) GAC	F,G,J,K				153	153		153	153		153	153	153	
	C(1)_	_C183 (2) (3) GAC	F,G,J,K				183	183		183	183		183	183	133	
22,000 0	C(1)_	_C223 (2) (3) GAC	F,G,J,K				223	223		223			223	223		
27,000 0	C(1)_	_C273 (2) (3) GAC	F,G,J,K				273	273		273			273	273		
33,000 0	C (1)	_C333 (2) (3) GAC	F,G,J,K										333	2/5		

⁽¹⁾ To complete part number, insert four digit number for KEMET style desired 0.402, 0.603, 0.805, 1206, 1210, 1812, 1825, 2220 or 2225
(2) To complete part number, insert appropriate letter for capacitance tolerance desired per table
(3) To complete part number, insert appropriate number for voltage desired "2" = 200 volts, "1" = 100 volts and "5" = 50 volts, "3" = 25 volts, "4" = 16 volts, and "8" = 10 volts
**NOTE For non-standard capacitance values or voltages, contact your local KEMET sales representative 50 Volt Ceramic Chips can be used for 63 volt applications

**DF limit for extended range is 0 15%