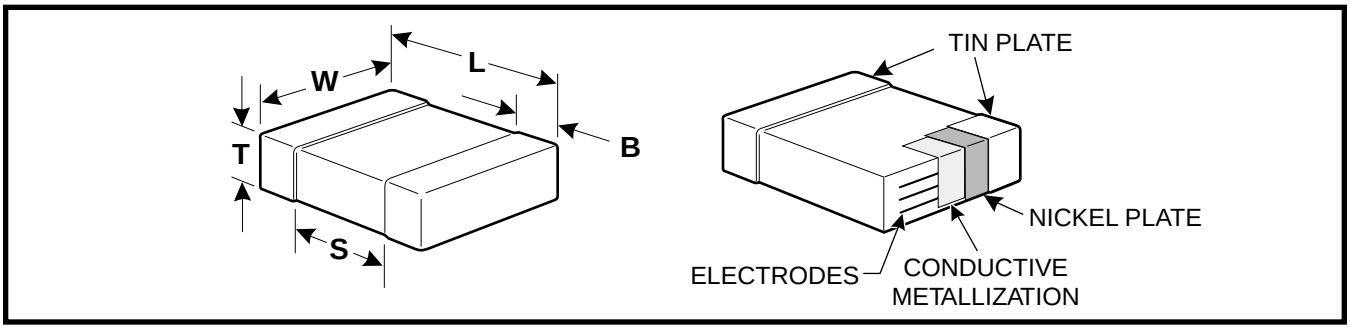
CERAMIC CHIP CAPACITORS

FEATURES

- C0G (NP0), X7R, X5R, 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; ±1%; ±2%; ±5%; ±10%; ±20%; and +80%-20%
- Tape and reel packaging per EIA481-1. (See page 63 for specific tape and reel information.) Bulk Cassette packaging (0402, 0603, 0805 only) per IEC60286-6 and EIAJ 7201.
- RoHS Compliant

CAPACITOR OUTLINE DRAWINGS



DIMENSIONS—MILLIMETERS AND (INCHES)

EIA SIZE CODE	METRIC SIZE CODE (Ref only)	L # LENGTH	W # WIDTH		B BANDWIDTH	S MIN. SEPARATION	MOUNTING TECHNIQUE
0402*	1005	1.0 (.04) ± .05(.002)	0.5 (.02) ± .05 (.002)	See page 63 for thickness dimensions.	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)		0.35 (.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)		0.5 (.02) ±.25 (.010)	0.75 (.030)	
1206*	3216	3.2 (.126) ± 0.2 (.008)	1.6 (.063) ± 0.2 (.008)		0.5 (.02) ±.25 (.010)	N/A	
1210*	3225	3.2 (.126) ± 0.2 (.008)	2.5 (.098) ± 0.2 (.008)		0.5 (.02) ±.25 (.010)	N/A	
1812	4532	4.5 (.177) ± 0.3 (.012)	3.2 (.126) ± 0.3 (.012)		0.6 (.024) ±.35 (.014)	N/A	Solder Reflow
1825*	4564	4.5 (.177) ± 0.3 (.012)	6.4 (.252) ± 0.4 (.016)		0.6 (.024) ±.35 (.014)	N/A	
2220	5650	5.6 (.220) ± 0.4 (.016)	5.0 (.197) ± 0.4 (.016)		0.6 (.024) ±.35 (.014)	N/A	
2225	5664	5.6 (.220) ± 0.4 (.016)	6.3 (.248) ± 0.4 (.016)		0.6 (.024) ±.35 (.014)	N/A	

* Note: Indicates EIA Preferred Case Sizes (Tightened tolerances apply for 0402, 0603, and 0805 packaged in bulk cassette, see page 82.)
† For extended value 1210 case size – solder reflow only.

CAPACITOR ORDERING INFORMATION (Standard Chips - For Military see page 72)

C 0805 C 103 K 5 R A C*

CERAMIC

SIZE CODE

SPECIFICATION
C - Standard

CAPACITANCE CODE
Expressed in Picofarads (pF)
First two digits represent significant figures.
Third digit specifies number of zeros. (Use 9 for 1.0 through 9.9pF. Use 8 for 0.5 through 0.99pF)
(Example: 2.2pF = 229 or 0.50 pF = 508)

CAPACITANCE TOLERANCE

B – ±0.10pF	J – ±5%
C – ±0.25pF	K – ±10%
D – ±0.5pF	M – ±20%
F – ±1%	P – (GMV) – special order only
G – ±2%	Z – +80%, -20%

END METALLIZATION
C-Standard
(Tin-plated nickel barrier)

FAILURE RATE LEVEL
A- Not Applicable

TEMPERATURE CHARACTERISTIC
Designated by Capacitance Change Over Temperature Range
G – C0G (NP0) (±30 PPM/°C)
R – X7R (±15%) (-55°C + 125°C)
P– X5R (±15%) (-55°C + 85°C)
U – Z5U (+22%, -56%) (+10°C + 85°C)
V – Y5V (+22%, -82%) (-30°C + 85°C)

VOLTAGE

1 - 100V	3 - 25V
2 - 200V	4 - 16V
5 - 50V	8 - 10V
	9 - 6.3V

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

CERAMIC CHIP/STANDARD

C0G CAPACITANCE RANGE – 1210, 1812, 1825, 2220, 2225

Cap pF	Cap Code	Cap Tol.	C1210* 50V	C1210* 100V	C1210* 200V	C1812* 50V	C1812* 100V	C1812* 200V	C1825* 50V	C1825* 100V	C1825* 200V	C2220 50V	C2220 100V	C2220 200V	C2225 50V	C2225 100V	C2225 200V
10	100	D J,K,M	FB	FB	FB												
12	120	D J,K,M	FB	FB	FB												
15	150	D G,J,K,M	FB	FB	FB												
18	180	D G,J,K,M	FB	FB	FB												
22	220	D G,J,K,M	FB	FB	FB												
27	270	D,F,G,J,K,M	FB	FB	FB												
33	330	D,F,G,J,K,M	FB	FB	FB												
39	390	D,F,G,J,K,M	FB	FB	FB												
47	470	D,F,G,J,K,M	FB	FB	FB												
56	560	F,G,J,K,M	FB	FB	FB												
68	680	F,G,J,K,M	FB	FB	FB												
82	820	F,G,J,K,M	FB	FB	FB												
100	101	F,G,J,K,M	FB	FB	FB												
120	121	F,G,J,K,M	FB	FB	FB												
150	131	F,G,J,K,M	FB	FB	FB												
180	181	F,G,J,K,M	FB	FB	FB												
220	221	F,G,J,K,M	FB	FB	FB												
270	271	F,G,J,K,M	FB	FB	FB												
330	331	F,G,J,K,M	FB	FB	FB												
390	391	F,G,J,K,M	FB	FB	FB												
470	471	F,G,J,K,M	FB	FB	FB	GB	GB	GB									
560	561	F,G,J,K,M	FB	FB	FB	GB	GB	GB									
680	681	F,G,J,K,M	FB	FB	FB	GB	GB	GB									
820	821	F,G,J,K,M	FB	FB	FB	GB	GB	GB									
1,000	102	F,G,J,K,M	FB	FB	FB	GB	GB	GB									
1,200	122	F,G,J,K,M	FB	FB	FB	GB	GB	GB									
1,500	152	F,G,J,K,M	FB	FB	FE	GB	GB	GB									
1,800	182	F,G,J,K,M	FB	FB	FE	GB	GB	GB									
2,200	222	F,G,J,K,M	FB	FC	FG	GB	GB	GB									
2,700	272	F,G,J,K,M	FB	FC	FC	GB	GB	GB									
3,300	332	F,G,J,K,M	FB	FF	FF	GB	GB	GB									
3,900	392	F,G,J,K,M	FB	FF		GB	GB	GB	HB	HB	HB						
4,700	472	F,G,J,K,M	FF	FF		GB	GB	GD	HB	HB	HB				KB	KB	KB
5,600	562	F,G,J,K,M	FB	FF		GB	GB	GH	HB	HB	HB				KB	KB	KB
6,800	682	F,G,J,K,M	FB	FG		GB	GB	GJ	HB	HB	HB	JB	JB		KB	KB	KB
8,200	822	F,G,J,K,M	FC			GB	GB		HB	HB	HB	JB	JB		KB	KB	KB
10,000	103	F,G,J,K,M	FF			GB	GD		HB	HB	HE	JB	JB		KB	KB	KB
12,000	123	F,G,J,K,M	FG			GB	GD		HB	HB	HE	JB	JB		KB	KB	KB
15,000	153	F,G,J,K,M							HB	HB		JB	JB		KB	KB	KE
18,000	183	F,G,J,K,M							HB	HB		JB	JB		KB	KB	
22,000	223	F,G,J,K,M							HB	HE		JB			KB	KB	
27,000	273	F,G,J,K,M							HB	HE		JB			KB	KB	
33,000	333	F,G,J,K,M													KB		

X7R CAPACITANCE RANGE – 0402, 0603, 0805, 1206

Cap pF	Cap Code	Cap Tol.	C0402* 6.3V	C0402* 10V	C0402* 16V	C0402* 25V	C0402* 50V	C0603* 6.3V	C0603* 10V	C0603* 16V	C0603* 25V	C0603* 50V	C0603* 100V	C0603* 200V	C0805* 6.3V	C0805* 10V	C0805* 16V	C0805* 25V	C0805* 50V	C0805* 100V	C0805* 200V	C1206* 6.3V	C1206* 10V	C1206* 16V	C1206* 25V	C1206* 50V	C1206* 100V	C1206* 200V
150	151	K,M,J	BB	BB	BB	BB	BB																					
180	181	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CB														
220	221	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CB	DC	DC	DC	DC	DC	DC	DC							
270	271	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CB	DC	DC	DC	DC	DC	DC	DC							
330	331	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CB	DC	DC	DC	DC	DC	DC	DC							
390	391	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CB	DC	DC	DC	DC	DC	DC	DC							
470	471	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CB	DC	DC	DC	DC	DC	DC	DC							
560	561	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CB	DC	DC	DC	DC	DC	DC	DC							
680	681	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CB	DC	DC	DC	DC	DC	DC	DC							
820	821	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CB	DC	DC	DC	DC	DC	DC	DC							
1,000	102	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CB	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
1,200	122	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
1,500	152	K,M,J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
1,800	182	K,M,J	BB	BB	BB	BB	BB#	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
2,200	222	K,M,J	BB	BB	BB	BB	BB#	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
2,700	272	K,M,J	BB	BB	BB	BB	BB#	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
3,300	332	K,M,J	BB	BB	BB	BB	BB#	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
3,900	392	K,M,J	BB	BB	BB	BB	BB#	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
4,700	472	K,M,J	BB	BB	BB	BB	BB#	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
5,600	562	K,M,J	BB	BB	BB	BB	BB#	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
6,800	682	K,M,J	BB	BB	BB	BB	BB#	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
8,200	822	K,M,J	BB	BB	BB	BB	BB#	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
10,000	103	K,M,J	BB	BB	BB	BB	BB#	CB	CB	CB	CB	CB	CB	CC	DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
12,000	123	K,M,J**	BB	BB	BB			CB	CB	CB	CB	CB	CC		DC	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB	EB
15,000	153	K,M,J**	BB	BB	BB			CB	CB	CB	CB	CB	CC		DD	DD	DD	DD	DD	DD	DC	EB	EB	EB	EB	EB	EB	EB
18,000	183	K,M,J**	BB	BB	BB			CB	CB	CB	CB	CB	CC		DC	DC	DC	DC	DC	DD	DC	EB	EB	EB	EB	EB	EB	EB
22,000	223	K,M,J**	BB	BB	BB			CB	CB	CB	CB	CB	CC		DC	DC	DC	DC	DC	DD	DC	EB	EB	EB	EB	EB	EB	EB
27,000	273	K,M,J**	BB	BB	BB			CB	CB	CB	CB	CB	CC		DC	DC	DC	DC	DC	DD	DE	EB	EB	EB	EB	EB	EB	EB
33,000	333	K,M,J**	BB	BB	BB			CB	CB	CB	CB	CB	CC		DC	DC	DC	DC	DC	DD	DE	EB	EB	EB	EB	EB	EB	EB
39,000	393	K,M,J**	BB	BB	BB			CB	CB	CB	CB	CB	CC		DD	DD	DD	DD	DD	DD	DE	EB	EB	EB	EB	EB	EC	EB
47,000	473	K,M,J**	BB	BB	BB			CB	CB	CB	CB	CB			DD	DD	DD	DD	DD	DE	DG	EB	EB	EB	EB	EB	EC	ED
56,000	563	K,M,J**	BB	BB	BB			CB	CB	CB	CB	CC			DD	DD	DD	DD	DD#	DE	DG	EB	EB	EB	EB	EB	EB	ED
68,000	683	K,M,J**	BB	BB	BB			CB	CB	CB	CB	CC			DD	DD	DD	DD	DD#	DE		EB	EB	EB	EB	EB	EB	ED
82,000	823	K,M,J**	BB	BB	BB			CB	CB	CB	CB	CC			DD	DD	DD	DD	DD#	DE		EB	EB	EB	EB	EB	EB	ED
100,000	104	K,M,J**	BB	BB	BB			CB#	CB#	CB#	CB#	CC#			DD	DD	DD	DD	DD#	DE		EB	EB	EB	EB	EB	EB	EM
120,000	124	K,M,J**						CB#	CB#	CB#					DC	DC	DC	DC	DD#	DG		EC	EC	EC	EC	EC	EC	EM
150,000	154	K,M,J**						CB#	CB#	CB#					DC	DC	DC	DC	DD#			EC	EC	EC	EC	EC	EC	EG
180,000	184	K,M,J**						CB#	CB#	CB#					DC	DC	DC	DC	DD#			EC	EC	EC	EC	EC#	EC#	
220,000	224	K,M,J**						CB#	CB#	CB#					DC	DC	DC	DC	DD#			EC	EC	EC	EC	EC#	EC#	
270,000	274	K,M,J**						CB#	CB#	CB#					DD	DD	DD	DD				EB	EB	EB	EB	EC#	EM	
330,000	334	K,M,J**						CB#	CB#	CB#					DE	DE	DE	DE				EB	EB	EB	EB	EC#	EG	
390,000	394	K,M,J**						CB#	CB#	CB#					DG	DG	DG	DG				EB	EB	EB	EB	EG#	EG	
470,000	474	K,M,J**						CB#	CB#	CB#					DG	DG	DG	DG				EC	EC	EC	EC	EC#		
560,000	564	K,M,J**													DG	DG	DG	DG				ED	ED	ED	ED	EC#		
680,000	684	K,M,J**													DG	DG	DG					EE	EE	EE	EE	ED#		
820,000	824	K,M,J*													DG	DG	DG					EF	EF	EF	EF			
1,000,000	105	K,M,J**													DG	DG	DG					EE	EE	EF	EG			
1,200,000	125	K,M,J**													DE	DE	DE					ED	ED	ED	EG			
1,500,000	155	K,M,J**													DG	DG	DG					EF	EF	EF	EG			
1,800,000	185	K,M,J**													DG	DG	DG					EF	EF	EF				
2,200,000	225	K,M,J**													DG	DG	DG					EG	EG	EG				
2,700,000	275	K,M,J**																				EN	EN	EK				
3,300,000	335	K,M,J**																				ED	ED	ED				
3,900,000	395	K,M,J**																				EL	EL	EL				
4,700,000	475	K,M,J**																				EM	EM	EM				
5,600,000	565	K,M,J**																				EH	EH	EH				
6,800,000	685	K,M,J**																				EH	EH	EH				
8,200,000	825	K,M,J**																				EH	EH					
10,000,000	106	K,M,J**																				EH	EH					

*** Indicates EIA preferred chip sizes. NOTE: For non-standard apacitance values or voltages, contact your local KEMET sales representative. #X7R dielectric - Extended Range Values - Cap and DF measured @ 0.5 Vms. Improved product with higher ratings and tighter tolerance product may be substituted within the same size (length, width, and thickness) at KEMET's option. Reels with substitutions will be marked with the improved KEMET part numbers. ** Contact KEMET representative for J tolerance availability.**

X7R CAPACITANCE RANGE – 1210, 1812, 1825, 2220, 2225

Cap pF	Cap Code	Cap Tol.	C1210*							C1812*			C1825*			C2220			C2225		
			6.3V	10V	16V	25V	50V	100V	200V	50V	100V	200V	50V	100V	200V	50V	100V	200V	50V	100V	200V
2,200	222	K,M,J	FB	FB	FB	FB	FB	FB	FB												
2,700	272	K,M,J	FB	FB	FB	FB	FB	FB	FB												
3,300	332	K,M,J	FB	FB	FB	FB	FB	FB	FB												
3,900	392	K,M,J	FB	FB	FB	FB	FB	FB	FB												
4,700	472	K,M,J	FB	FB	FB	FB	FB	FB	FB												
5,600	562	K,M,J	FB	FB	FB	FB	FB	FB	FB												
6,800	682	K,M,J	FB	FB	FB	FB	FB	FB	FB	GB	GB	GB									
8,200	822	K,M,J	FB	FB	FB	FB	FB	FB	FB	GB	GB	GB									
10,000	103	K,M,J	FB	FB	FB	FB	FB	FB	FB	GB	GB	GB									
12,000	123	K,M,J	FB	FB	FB	FB	FB	FB	FB	GB	GB	GB									
15,000	153	K,M,J	FB	FB	FB	FB	FB	FB	FB	GB	GB	GB									
18,000	183	K,M,J	FB	FB	FB	FB	FB	FB	FB	GB	GB	GB									
22,000	223	K,M,J	FB	FB	FB	FB	FB	FB	FB	GB	GB	GB	HB	HB	HB						
27,000	273	K,M,J	FB	FB	FB	FB	FB	FB	FB	GB	GB	GB	HB	HB	HB						
33,000	333	K,M,J	FB	FB	FB	FB	FB	FB	FB	GB	GB	GB	HB	HB	HB						
39,000	393	K,M,J	FB	FB	FB	FB	FB	FB	FB	GB	GB	GB	HB	HB	HB						
47,000	473	K,M,J	FB	FB	FB	FB	FB	FB	FC	GB	GB	GB	HB	HB	HB				KC	KC	KC
56,000	563	K,M,J	FB	FB	FB	FB	FB	FB	FC	GB	GB	GB	HB	HB	HB				KC	KC	KC
68,000	683	K,M,J	FB	FB	FB	FB	FB	FB	FC	GB	GB	GB	HB	HB	HB				KC	KC	KC
82,000	823	K,M,J	FB	FB	FB	FB	FC	FC	FF	GB	GB	GB	HB	HB	HB				KC	KC	KC
100,000	104	K,M,J	FB	FB	FB	FB	FB	FD	FG	GB	GB	GB	HB	HB	HB				KC	KC	KC
120,000	124	K,M,J	FB	FB	FB	FB	FB	FD		GB	GB	GB	HB	HB	HB				KC	KC	KC
150,000	154	K,M,J	FC	FC	FC	FC	FC	FD		GB	GB	GE	HB	HB	HB				KC	KC	KC
180,000	184	K,M,J	FC	FC	FC	FC	FC	FD		GB	GB	GG	HB	HB	HB				KC	KC	KC
220,000	224	K,M,J	FC	FC	FC	FC	FC	FD		GB	GB		HB	HB	HB				KC	KC	KC
270,000	274	K,M,J	FC	FC	FC	FC	FC#	FD#		GB	GH		HB	HB	HB	JC	JC	JC	KB	KC	KC
330,000	334	K,M,J	FD	FD	FD	FD	FD#	FD#		GB	GH		HB	HB	HB	JC	JC	JC	KB	KC	KC
390,000	394	K,M,J	FD	FD	FD	FD	FD#			GB			HB	HB	HD	JC	JC	JC	KB	KC	KC
470,000	474	K,M,J	FD	FD	FD	FD	FD#			GB			HB	HB		JC	JC		KB	KC	KD
560,000	564	K,M,J	FD	FD	FD	FD	FD#			GC			HB	HD		JC	JC		KB	KC	
680,000	684	K,M,J	FD	FD	FD	FD	FD#			GC			HB	HD		JC	JD		KB	KC	
820,000	824	K,M,J	FF	FF	FF	FF	FF#			GE			HB			JC	JF		KB	KC	
1,000,000	105	K,M,J	FH	FH	FH	FH	FH#			GE			HB			JC			KB	KD	
1,200,000	125	K,M,J	FH	FH	FH	FH							HB			JC			KB		
1,500,000	155	K,M,J	FH	FH	FH	FH							HB			JC			KC		
1,800,000	185	K,M,J	FH	FH	FH	FH							HD			JD			KD		
2,200,000	225	K,M,J	FJ	FJ	FJ	FJ							HF			JF			KD		

*** Indicates EIA preferred chip sizes.**
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.
Extended Range Values – Cap and DF measured @ 0.5 Vrms.

Improved product with higher ratings and tighter capacitance tolerance product may be substituted within the same size (length, width, and thickness) at KEMET's option.
Reels with such substitutions will be marked with the improved KEMET part numbers.

X5R CAPACITANCE RANGE

Cap pF	Cap Code	Cap Tol.	C0402*		C0603*			C0805*				C1206*				C1210*				
			6.3V	10V	6.3V	10V	16V	6.3V	10V	16V	25V	6.3V	10V	16V	25V	6.3V	10V	16V	25V	50V
12,000	123	K,M	BB	BB																
15,000	153	K,M	BB	BB																
18,000	183	K,M	BB	BB																
22,000	223	K,M	BB	BB																
27,000	273	K,M	BB	BB																
33,000	333	K,M	BB	BB																
39,000	393	K,M	BB	BB																
47,000	473	K,M	BB	BB																
56,000	563	K,M	BB	BB																
68,000	683	K,M	BB	BB																
82,000	823	K,M	BB	BB																
100,000	104	K,M	BB	BB																
120,000	124	K,M																		
150,000	154	K,M																		
180,000	184	K,M																		
220,000	224	K,M																		
270,000	274	K,M			CC	CC	CC								EB					
330,000	334	K,M			CC	CC	CC								EB					
390,000	394	K,M			CC	CC	CC								EB					
470,000	474	K,M			CC	CC	CC				DC				EC					
560,000	564	K,M			CC	CC	CC				DD				ED					
680,000	684	K,M			CC	CC	CC				DE				EE					
820,000	824	K,M			CC	CC	CC				DF				EF					
1,000,000	105	K,M			CC	CC	CC				DG				EH			FH+	FH+	FH+
1,200,000	125	K,M			CC			DD	DD	DD					EC			FD+	FD+	
1,500,000	155	K,M			CC			DE	DE	DE		EC	EC	EC	EC			FD+	FD+	
1,800,000	185	K,M			CC			DH	DH	DH		EC	EC	EC	EC			FD+	FD+	
2,200,000	225	K,M			CC			DH	DH	DH		EE	EE	EE	EE			FG+	FG+	
2,700,000	275	K,M						DD	DD	DD		EF	EF	EF	EF			FG+	FG+	
3,300,000	335	K,M						DE	DE	DE		EH	EH	EH	EH			FH+	FH+	
4,700,000	475	K,M						DH	DH	DH		EH	EH	EH	EH	FK+	FK+	FK+	FK+	
6,800,000	685	K,M						DH				EK	EK	EH		FJ+	FJ+	FJ+	FJ+	
8,200,000	825	K,M						DH				EK	EK	EH		FK+	FK+	FK+	FK+	
10,000,000	106	K,M						DH				EL	EL	EH		FK+	FK+	FK+	FK+	
12,000,000	126	K,M										EH				FD+	FD+	FG+		
15,000,000	156	K,M										EH				FD+	FD+	FL+		
18,000,000	186	K,M										EH				FL+	FL+	FH+		
22,000,000	226	K,M										EH				FH+	FH+	FJ+		

NOTE: For non-standard capacitance values or voltages, contact your local KEMET sales representative.
+ Reflow only

Improved product with higher ratings and tighter capacitance tolerance product may be substituted within the same size (length, width, and thickness) at KEMET's option.
Reels with such substitutions will be marked with the improved KEMET part numbers.

See page 63 for Thickness Code Reference Chart.

THICKNESS CODE REFERENCE CHART

PACKAGING QTY BASED ON FINISHED CHIP THICKNESS SPECIFICATIONS

Thickness Code	Chip Size	Chip Thickness Range (mm)	Qty per Reel 7" Plastic	Qty per Reel 13" Plastic	Qty per Reel 7" Paper	Qty per Reel 13" Paper	Qty per Bulk Cassette
AA	0201	.30 ± .03	N/A	N/A	15,000	N/A	N/A
BB	0402	.50 ± .05	N/A	N/A	10,000	50,000	50,000
CB	0603	.80 ± .07	N/A	N/A	4,000	10,000	15,000
CC	0603	.80 ± .10	N/A	N/A	4,000	10,000	N/A
CD	0603	.80 ± .15	N/A	N/A	4,000	10,000	N/A
DB	0805	.60 ± .10	N/A	N/A	N/A	N/A	10,000
DC	0805	.78 ± .10	4,000	10,000	4,000	10,000	N/A
DD	0805	.90 ± .10	4,000	10,000	N/A	N/A	N/A
DE	0805	1.00 ± .10	2,500	10,000	N/A	N/A	N/A
DF	0805	1.10 ± .10	2,500	10,000	N/A	N/A	N/A
DG	0805	1.25 ± .15	2,500	10,000	N/A	N/A	N/A
DH	0805	1.25 ± .20	2,500	10,000	N/A	N/A	N/A
EB	1206	.78 ± .10	4,000	10,000	4,000	10,000	N/A
EC	1206	.90 ± .10	4,000	10,000	N/A	N/A	N/A
ED	1206	1.00 ± .10	2,500	10,000	N/A	N/A	N/A
EE	1206	1.10 ± .10	2,500	10,000	N/A	N/A	N/A
EF	1206	1.20 ± .15	2,500	10,000	N/A	N/A	N/A
EG	1206	1.60 ± .15	2,000	8,000	N/A	N/A	N/A
EH	1206	1.60 ± .20	2,000	8,000	N/A	N/A	N/A
EJ	1206	1.70 ± .20	2,000	8,000	N/A	N/A	N/A
EK	1206	.80 ± .10	2,000	8,000	N/A	N/A	N/A
EL	1206	1.15 ± .15	2,000	8,000	N/A	N/A	N/A
EM	1206	1.25 ± .15	2,500	10,000	N/A	N/A	N/A
EN	1206	0.95 ± 0.1	4,000	10,000	N/A	N/A	N/A
FB	1210	.78 ± .10	4,000	10,000	N/A	N/A	N/A
FC	1210	.90 ± .10	4,000	10,000	N/A	N/A	N/A
FD	1210	.95 ± .10	4,000	10,000	N/A	N/A	N/A
FE	1210	1.00 ± .10	2,500	10,000	N/A	N/A	N/A
FF	1210	1.10 ± .10	2,500	10,000	N/A	N/A	N/A
FG	1210	1.25 ± .15	2,500	10,000	N/A	N/A	N/A
FH	1210	1.55 ± .15	2,000	8,000	N/A	N/A	N/A
FJ	1210	1.85 ± .20	2,000	8,000	N/A	N/A	N/A
FK	1210	2.10 ± .20	2,000	8,000	N/A	N/A	N/A
FL	1210	1.40 ± .15	2,000	8,000	N/A	N/A	N/A
FM	1210	1.70 ± .20	2,000	8,000	N/A	N/A	N/A
FN	1210	1.85 ± .20	2,000	8,000	N/A	N/A	N/A
GB	1812	1.00 ± .10	1,000	4,000	N/A	N/A	N/A
GC	1812	1.10 ± .10	1,000	4,000	N/A	N/A	N/A
GD	1812	1.25 ± .15	1,000	4,000	N/A	N/A	N/A
GE	1812	1.30 ± .10	1,000	4,000	N/A	N/A	N/A
GF	1812	1.50 ± .10	1,000	4,000	N/A	N/A	N/A
GG	1812	1.55 ± .10	1,000	4,000	N/A	N/A	N/A
GH	1812	1.40 ± .15	1,000	4,000	N/A	N/A	N/A
GJ	1812	1.70 ± .15	1,000	4,000	N/A	N/A	N/A
GK	1812	1.60 ± .20	1,000	4,000	N/A	N/A	N/A
GL	1812	1.90 ± .20	1,000	4,000	N/A	N/A	N/A
GM	1812	2.00 ± .20	1,000	4,000	N/A	N/A	N/A
HB	1825	1.10 ± .15	1,000	4,000	N/A	N/A	N/A
HC	1825	1.15 ± .15	1,000	4,000	N/A	N/A	N/A
HD	1825	1.30 ± .15	1,000	4,000	N/A	N/A	N/A
HE	1825	1.40 ± .15	1,000	4,000	N/A	N/A	N/A
HF	1825	1.50 ± .15	1,000	4,000	N/A	N/A	N/A
JB	2220	1.00 ± .15	1,000	4,000	N/A	N/A	N/A
JC	2220	1.10 ± .15	1,000	4,000	N/A	N/A	N/A
JD	2220	1.30 ± .15	1,000	4,000	N/A	N/A	N/A
JE	2220	1.40 ± .15	1,000	4,000	N/A	N/A	N/A
JF	2220	1.50 ± .15	1,000	4,000	N/A	N/A	N/A
KB	2225	1.00 ± .15	1,000	4,000	N/A	N/A	N/A
KC	2225	1.10 ± .15	1,000	4,000	N/A	N/A	N/A
KD	2225	1.30 ± .15	1,000	4,000	N/A	N/A	N/A
KE	2225	1.40 ± .15	1,000	4,000	N/A	N/A	N/A

This chart refers to ceramic chip thickness codes on pages 59-62.

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