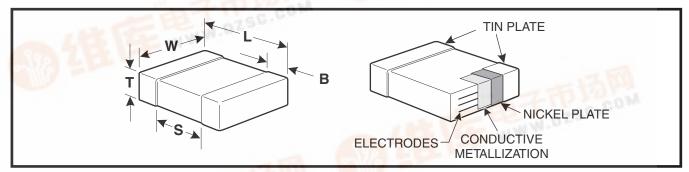


FEATURES

- COG (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 92 for specific tape and reel information.) Bulk Cassette packaging (0402, 0603, 0805 only) per WWW.DZSC.COM IEC60286-6 and EIAJ 7201.
- RoHS Compliant

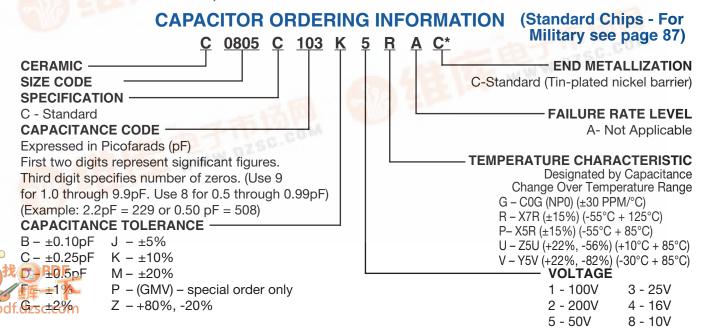
CAPACITOR OUTLINE DRAWINGS



DIMENSIONS—MILLIMETERS AND (INCHES)

MOUNTING TECHNIQUE	S SEPARATION minimum	B - BANDWIDTH	T THICKNESS	W - WIDTH	L - LENGTH	METRIC SIZE CODE	EIA SIZE CODE
Solder Reflow	N/A	0.15 (.006) ± .05 (.002)		0.3 ± (.012) ± .03 (.001)	0.6 (.024) ± .03 (.001)	0603	0201*
Solder Reliow	0.3 (.012)	0.20 (.008)40 (.016)		0.5 (.02) ± .05 (.002)	1.0 (.04) ± .05 (.002)	1005	0402*
	0.7 (.028)	0.35 (.014) ± .15 (.006)		0.8 (.032) ± .15 (.006)	1.6 (.063) ± .15 (.006)	1608	0603
Solder Wave +	0.75 (.030)	0.50 (.02) ± .25 (.010))	1.25 (.049) ± .20 (.008)	2.0 (.079) ± .20 (.008)	2012	0805*
or Solder Reflow	N/A	0.50 (.02) ± .25 (.010)	See page 78 for thickness	1.6 (.063) ± .20 (.008)	3.2 (.126) ± .20 (.008)	3216	1206*
	N/A	0.50 (.02) ± .25 (.010)	dimensions.	2.5 (.098) ± .20 (.008)	3.2 (.126) ± .20 (.008)	3225	1210*
	N/A	0.60 (.024) ± .35 (.014)	dimensions.	3.2 (.126) ± .30 (.012)	4.5 (.177) ± .30 (.012)	4532	1812
Solder Reflow	N/A	0.60 (.024) ± .35 (.014)		6.4 (.252) ± .40 (.016)	4.5 (.177) ± .30 (.012)	4564	1825*
Soluer Reliow	N/A	0.60 (.024) ± .35 (.014)		5.0 (.197) ± .40 (.016)	5.6 (.220) ± .40 (.016)	5650	2220
	N/A	0.60 (.024) ± .35 (.014)		6.3 (.248) ± .40 (.016)	5.6 (.220) ± .40 (.016)	5664	2225

* Note: Indicates EIA Preferred Case Sizes (Tightened tolerances apply for 0402, 0603, and 0805 packaged in bulk bassette, see page 96.) + For extended value 1210 case size - solder reflow only



Ceramic Surface Mount

CERAMIC CHIP/STANDARD



				G CAP	AC				RF	AINC			201	, 041	UZ,	00			J D , I	200)					
	Сар	Cap	Сар	C0201*			402*					603*	-					805*						206*		
	pF 0.50	Code 508	Tolerance C,D	25V	10V BB	16V BB	25V BB	50V BB	10V CB	16V CB	25V CB	50V CB	100V CB	200V CB	10V DC	16V DC	25V DC	50V DC	100V	200V	10V	16V	25V	50V	100V	200V
	0.75	758	C,D		BB	BB	BB	BB	СВ	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC						
	1.0 1.1	109 119	C,D C,D		BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	1.2	129	C,D		BB	BB	BB	BB	CB	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
ļ	1.5 1.6	159 169	C,D C,D		BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	1.8	189	C,D		BB	BB	BB	BB	CB	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	2.0 2.2	209 229	C,D C,D		BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	2.4	249	C,D		BB	BB	BB	BB	CB	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	2.7 3.0	279 309	C,D K,M C,D K,M		BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	3.3 3.9	339 399	C,D K,M C,D K,M		BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	4.3	439	C,D K,M		BB	BB	BB	BB	CB	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	4.7 5.1	479 519	C,D K,M C,D K,M		BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	5.6	569	C,D J,K,M		BB	BB	BB	BB	CB	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	6.0 6.2	609 629	C,D J,K,M C,D J,K,M		BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	6.8	689	C,D J,K,M		BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	7.0 7.5	709 759	C,D J,K,M C,D J,K,M		BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	8.2 9.1	829 919	C,D J,K,M C,D J,K,M		BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	10.0	100	C,D J,K,M	AA^	BB	BB	BB	BB	CB	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	11.0 12.0	110 120	C,D J,K,M C,D J,K,M	AA~	BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	13.0	130	C,D J,K,M		BB	BB	BB	BB	CB	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	15.0 16.0	150 160	C,D G,J,K,M C,D G,J,K,M	AA~	BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	18.0	180	C,D G,J,K,M	AA~	BB	BB	BB	BB	CB	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	20.0 22.0	200 220	C,D G,J,K,M C,D G,J,K,M	AA~	BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	24.0	240	C,D G,J,K,M		BB	BB BB	BB BB	BB BB	CB CB	CB	CB CB	CB CB	CB CB	CB	DC	DC DC	DC DC	DC DC	DC	DC DC	EB	EB EB	EB	EB	EB EB	EB
	27.0 30.0	270 300	D,F,G,J,K,M D,F,G,J,K,M	AA~	BB BB	BB	BB	BB	CB	CB CB	CB	CB	CB	CB CB	DC DC	DC	DC	DC	DC DC	DC	EB EB	EB	EB EB	EB EB	EB	EB EB
	33.0 36.0	330 360	D,F,G,J,K,M D,F,G,J,K,M	AA~	BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	39.0	390	D,F,G,J,K,M	AA~	BB	BB	BB	BB	CB	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	43.0 47.0	430 470	D,F,G,J,K,M D,F,G,J,K,M	AA~	BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	51.0	510	D,F,G,J,K,M		BB	BB	BB	BB	CB	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
ļ	56.0 62.0	560 620	F,G,J,K,M F,G,J,K,M	AA~	BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
ļ	68.0	680	F,G,J,K,M	AA~	BB	BB	BB	BB	CB	CB	СВ	CB	CB	CB	DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
ļ	75.0 82.0	750 820	F,G,J,K,M F,G,J,K,M	AA~	BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	91.0	910	F,G,J,K,M		BB	BB	BB	BB	CB	CB	СВ	CB	CB		DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	100.0 110.0	101 111	F,G,J,K,M F,G,J,K,M	AA~	BB	BB	BB	BB	CB CB	CB CB	CB CB	CB CB	CB CB		DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	120.0	121	F,G,J,K,M					BB•	CB	CB	CB CB	CB CB	CB CB		DC	DC	DC DC	DC	DC	DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB
	130.0 150.0	131 151	F,G,J,K,M F,G,J,K,M					BB•	CB CB	CB CB	СВ	CB	CB		DC DC	DC DC	DC	DC DC	DC DC	DC DC	EB	EB	EB	EB	EB	EB EB
	160.0 180.0	161 181	F,G,J,K,M F,G,J,K,M					BB•	CB CB	CB CB	CB CB	CB CB	CB CB		DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
ļ	200.0	201	F,G,J,K,M						CB	CB	СВ	CB	CB		DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	220.0 240.0	221 241	F,G,J,K,M F,G,J,K,M					BB•	CB CB	CB CB	CB CB	CB CB	CB CB		DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
ļ	270.0	271	F,G,J,K,M					BB•	CB	CB	СВ	CB	CB		DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
	300.0 330.0	301 331	F,G,J,K,M F,G,J,K,M					BB•	CB CB	CB CB	CB CB	CB CB	CB CB		DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	360.0	361	F,G,J,K,M						CB	CB	СВ	CB			DC	DC	DC	DC	DC	DC	EB	EB	EB	EB	EB	EB
ļ	390.0 430.0	391 431	F,G,J,K,M F,G,J,K,M						CB CB	CB CB	CB CB	CB CB			DC DC	DC DC	DC DC	DC DC	DC DC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	470.0 510.0	471 511	F,G,J,K,M F,G,J,K,M				BB		CB CB	CB CB	CB CB	CB CB			DC DC	DC DC	DC DC	DC DC	DC DC	DD	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB
	560.0	561	F,G,J,K,M				вв		СВ	СВ	СВ	CC			DC	DC	DC	DC	DC		EB	EB	EB	EB	EB	EB
	620.0 680.0	621 681	F,G,J,K,M F,G,J,K,M				BB		CB CB	CB CB	CB CB	CC CC			DC DC	DC DC	DC DC	DC DC	DC DC		EB EB	EB EB	EB EB	EB EB	EB EB	EC EC
	750.0	751	F,G,J,K,M						CB	CB	СВ	CC			DC	DC	DC	DC	DC		EB	EB	EB	EB	EB	EC
	820.0 910.0	821 911	F,G,J,K,M F,G,J,K,M				BB		CB CB	CB CB		CC CC			DC DC	DC DC	DC DC	DC DC	DC DD		EB EB	EB EB	EB EB	EB EB	EB EB	EC ED
	1000.0 1100.0	102 112	F,G,J,K,M F,G,J,K,M				BB		СВ	СВ	СВ				DC DC	DC DC	DC DC	DC DC	DD		EB EB	EB EB	EB EB	EB EB	EB EB	EE EB
	1200.0	122	F,G,J,K,M												DC	DC	DC	DC			EB	EB	EB	EB	EB	EB
	1300.0 1500.0	132 152	F,G,J,K,M F,G,J,K,M												DD DD	DD DD	DD DD	DD DD			EB EB	EB EB	EB EB	EB EB	EC ED	EC EC
	1600.0	162	F,G,J,K,M												DD	DD	DD	DD			EB	EB	EB	EB	ED	ED
	1800.0 2000.0		F,G,J,K,M F,G,J,K,M												DD DC	DD DC	DD DC	DD			EB EB	EB EB	EB EB	EB EB	ED ED	ED
	2200.0	222	F,G,J,K,M								сс				DC	DC	DC				EB	EB	EB	EB	EE	
	2400.0 2700.0	272	F,G,J,K,M F,G,J,K,M								сс				DC DC	DC DC	DC DC				EB EB	EB EB	EB EB	EB EB	EC EC	
	3000.0 3300.0		F,G,J,K,M F,G,J,K,M								сс				DD DD	DD DD	DD DD				EC EC	EC EC	EC EC	EC EC	EC EE	
	3600.0	362	F,G,J,K,M												DD	DD	DD				EC	EC	EC	EC	EE	
	3900.0 4300.0	392 432	F,G,J,K,M F,G,J,K,M								СС				DE	DE	DE				EC EC	EC EC	EC EC	EC EC	EF	
	4700.0	472	F,G,J,K,M								сс						DC				EC	EC	EC	EC		
	5100.0 5600.0		F,G,J,K,M F,G,J,K,M								сс						DC				ED ED	ED ED	ED ED	ED ED		
ļ	6200.0	622	F,G,J,K,M																		EB	EB	EB			
	6800.0 7500.0	682 752	F,G,J,K,M F,G,J,K,M								СС						DC				EB EB	EB EB	EB EB			
	8200.0	822	F,G,J,K,M								сс						DC				EC	EC	EC			
	9100.0 10,000.0	912 103	F,G,J,K,M F,G,J,K,M								сс						DC				EC ED	EC ED	EC ED			
	18,000.0	183	F,G,J,K,M														DC						EB			
	22,000.0 33,000.0		F,G,J,K,M F,G,J,K,M														DD DJ						EB EB			
ļ	47,000.0	473	F,G,J,K,M																				EC			
	68,000.0 100,000.0		F,G,J,K,M F,G,J,K,M																				EF EH			
، ال			d chin sizes																							

COG CAPACITANCE RANGE - 0201, 0402, 0603, 0805, 1206

 47,000.0
 683
 F,G,J,K,M

 100,000.0
 104
 F,G,J,K,M

 * 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 in 63 volt applications.

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. · - ·



CERAMIC CHIP/STANDARD

С	ap	Сар		Cap			C1	210*			C1812			C182			C222	220. 0		C222	5
F	oF .	Code	То	lerand		25V	50V	100V	200V	50V	100V	200V	50V	100	/ 200\	/ 50V	100\	200V	50V	100V	200V
	10.0	100	D	J,K,			FB	FB	FB												
	12.0	120	D	J,K,			FB	FB	FB												
	15.0	150		G,J,K,			FB FB	FB FB	FB FB												
	18.0 22.0	180		G,J,K, G,J,K,			FB	FB	FB												
	22.0	220 270					FB	FB	FB												
	33.0	330		G,J,K, G,J,K,			FB	FB	FB												
	39.0	390		G,J,K, G,J,K,			FB	FB	FB												
	47.0	470		G,J,K,			FB	FB	FB												
	56.0	560		G,J,K			FB	FB	FB												
	68.0	680		G,J,K			FB	FB	FB												
	82.0	820		G,J,K			FB	FB	FB												
	100.0	101		G,J,K			FB	FB	FB												
	120.0	121		G,J,K			FB	FB	FB												
	150.0	151		G,J,K			FB	FB	FB												
	180.0	181		G,J,K			FB	FB	FB												
	220.0	221		G,J,K			FB	FB	FB												
	270.0	271		G,J,K			FB	FB	FB												
	330.0	331	E,	G,J,K	,М		FB	FB	FB												
	390.0	391	E,	G,J,K	,М		FB	FB	FB												
	470.0	471		G,J,K			FB	FB	FB	GB	GB	GB									
	560.0	561		G,J,K			FB	FB	FB	GB	GB	GB									
	680.0	681		G,J,K			FB	FB	FB	GB	GB	GB									
	820.0	821		G,J,K			FB	FB	FB	GB	GB	GB									
	,000.0	102		,G,J,K			FB	FB	FB	GB	GB	GB									
	,200.0	122		G,J,K			FB	FB	FB	GB	GB	GB									
	,500.0	152		G,J,K			FB	FB	FE	GB	GB	GB									
	,800.0	182		G,J,K			FB	FB	FE	GB	GB	GB									
	,200.0	222		G,J,K			FB	FC	FG	GB	GB	GB									
	700.0	272		G,J,K		_	FB	FC	FC	GB	GB	GB									
	,300.0	332		G,J,K			FB	FF FF	FF	GB	GB	GB	нв								
	,900.0	392		G,J,K			FB FF	FG		GB GB	GB GB	GB GD	HB	HB HB	HB HB				кв	КВ	КВ
	,700.0	472		G,J,K				FG													
	,600.0	562 682		,G,J,K .G.J.K			FB FB	FG		GB GB	GB GB	GH GJ	HB HB	HB HB	HB HB	JB	JB		KB KB	KB KB	KB KB
	,800.0	822		G,J,K G,J,K			FC	FG		GB	GB	GJ	HB	HB	HB	JB	JB		KB	KB	KB
	,200.0	103		G,J,K			FF			GB	GH		HB	HB	HE	JB	JB		KB	KB	KB
	,000.0	123		G,J,K G,J,K			FG			GB	GG		HB	HB	HE	JB	JB		KB	KB	KB
	,000.0	153		G,J,K			10			00	00		HB	HB		JB	JB		KB	KB	KE
	,000.0	183		G,J,K									HB	HB		JB	JB		KB	KB	
	0.000	223		G,J,K		FB							HB	HE		JB			KB	KB	
	0.000	273		G,J,K		FB							HB	HE		JB			KB	KB	
	0.000	333		G,J,K		FB													KB		
47	0.000	473	E.	G,J,K	M	FB															
68	0.000	683	E.	G,J,K	M	FB															
100	0.000	104	F.	G,J,K	,M	FE															
220,	,000.0	224	E,	G,J,K	,М	FK+															
					R	CAI	PAC	CITA			AN	GE	- 04	402	, 06			5, 12	06		
		С	0402	2						603							0805				
)													I -	0.11	401/4	~ / ~					
nce	6.3V		16V	25V	50\		V 10	DV 16	V 25	V 50	/ 100	OV 20	0V 6	6.3V	10V 1	6V 25	5V 50	V 100	V 200	JV 6.	3V 1
nce J	BB	BB	BB	BB	BB	3								0.3V	100 1	6V 2:	50 SU	V 100	V 200	DV 6.	3V 1
						B CE	з с	вС	вС	B CE	B CE	3 C	в	DC							3V 1

Cap	Cap	Cap	1	-	20402	<u>, </u>	C0603 C0805					-	-				C1206	6										
pF	Code	Tolerance	6.3V		16V	25V	501/	6.3V	10V	16V	25V	-	100V	200V	6 21/	101/	161			100V	200V	6.3V	10V	16V	25V	50V	100V	200V
150	151	K.M.J	BB	BB	BB	BB	BB	0.31	100	101	251	50.6	1000	2007	0.3V	100	100	250	50.0	1000	2000	0.3V	100	100	251	50.0	100 V	2007
180	181	K,M,J	BB	BB	BB	BB	BB	СВ																				
220	221	K,M,J	BB	BB	BB	BB	BB	CB	DC																			
270	271	K,M,J	BB	BB	BB	BB	BB	CB	DC																			
330	331	K,M,J	BB	BB	BB	BB	BB	CB	DC																			
390	391	K,M,J	BB	BB	BB	BB	BB	CB		DC	DC	DC	DC	DC	DC													
470	471	K,M,J	BB	BB	BB	BB	BB	CB	DC																			
560 680	561 681	K,M,J K,M,J	BB BB	BB BB	BB BB	BB BB	BB BB	CB CB	DC DC																			
820	821	K,IVI,J K,M,J	BB	BB	BB	BB	BB	СВ	СВ	СВ	CB	CB	CB	CB	DC													
1,000	102	K,M,J	BB	BB	BB	BB	BB	CB	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	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	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	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	EB	EB	EB	EB	EB	EB	EB						
2,700 3,300	272	K,M,J	BB BB	BB BB	BB BB	BB BB	BB BB	CB CB	CB CB	CB CB	CB CB	CB CB	CB CB	CC CC	DC DC	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB	EB EB						
3,300	332 392	K,M,J K.M.J	BB	BB	BB	BB	BB	CB	CB	CB	CB	CB	CB	CC		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	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	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	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	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	EB	EB	EB	EB	EB	EB	EB
12,000	123	K,M,J**	BB BB	BB	BB			CB	CB	CB	CB	CB CB	CC CC		DC	DC DC	DC	DC	DC	DC	DC	EB	EB EB	EB	EB	EB EB	EB	EB
15,000 18,000	153 183	K,M,J** K,M,J**	BB	BB BB	BB BB			CB CB	CB CB	CB CB	CB CB	CB	CC		DC DC	DC	DC DC	DC DC	DC DC	DD DD	DC DC	EB EB	EB	EB EB	EB EB	EB	EB EB	EB EB
22,000	223	K,M,J**	BB	BB	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	00		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		DC	DC	DC	DC	DC	DD	DE	EB	EB	EB	EB	EB	EC	EB
47,000	473	K,M,J**	BB	BB		BB*		CB	CB	CB	CB	CB	CB		DC	DC	DC	DC	DC	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 82,000	683 823	K,M,J** K,M,J**	BB BB	BB BB	BB BB			CB CB	CB CB	CB CB	CB CB	00 00			DD DD	DD DD	DD DD	DD DD	DD DD	DE DE		EB EB	EB EB	EB EB	EB EB	EB EB	EB EB	ED ED
100,000	023 104	K,M,J**	BB	BB	BB			СВ	CB	СВ	СВ	CC			DD	DD	DD	DD	DD	DE		EB	EB	EB	EB	EB	EB	ED
120,000	124	K,M,J**	00	00	00			CB	CB	CB	00	00			DC	DC	DC	DC	DD	DG		EC	EC	EC	EC	EC	EC	EM
150,000	154	K,M,J**						ČВ	ĊВ	CB		CD*			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	CD*				DC	DC	DC	DC	DD	DG		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	
330,000 390,000	334 394	K,M,J** K,M,J**						CB CB	CB CB	CB CB					DE DG	DE DG	DE DG	DE DG				EB EB	EB EB	EB EB	EB EB	EC EG	EG EG	
470,000		K,M,J**						CB	CB	CB								DG	DE*			EC	EC	EC	EC	EC	EG	
560,000	564	K,M,J**						00	00	00					DG	DG			25			ED	ED	ED	ED	EC	20	
680,000	684	K,M,J**													DG	DG	DG		DJ*			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**						CD	CD	CD*					DG	DG	DG	DJ*				EE	EE	EF	EG	ED*		
1,200,000	125	K,M,J**													DE	DE	DE					ED EF	ED	ED	EG EG			
1,500,000 1,800,000	155 185	K,M,J** K,M,J**													DG DG	DG DG	DG DG					EF	EF EF	EF EF	EG			
2,200,000		K,M,J**														DG						EG	EG	EG	EF*	EH*+		
2,200,000		K,M,J**													20	23	23					EN	EN	EK				
3,300,000		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*+	EH*+			
5,600,000	565	K,M,J**																				EH*+	EH*+	EH*+				
6,800,000	685	K,M,J**																				EH*+	EH*+	EH*+				
8,200,000 10,000,000	825 106	K,M,J** K,M,J**																				EH*+ EH*+	EH*+ EH*+	EH*+ EH*+				
10,000,000	100	r,,,vi,J															ļ				l	en +	<u>en +</u>	20 +	l	I		

* Capacitance K or M. ontact KEMET Sales Rep for J tolerance availability. + Reflow Only. NOTE: For non-standard capacitance values or voltages, contact your local KEMET sales representative.

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.



Thickness Code Reference Chart Packaging Quantity 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
DJ	0805	1.25 ± .20	3,000	10,000	N/A	N/A	N/A
DK	0805	1.25 ± .15	3,000	10,000	N/A	N/A	N/A
EB	1206	.78 ± .10	4,000	10,000	4,000	10,000	N/A
EC	1200	.90 ± .10	4,000	10,000	N/A	N/A	N/A
ED	1200	1.00 ± .10	2,500	10,000	N/A	N/A	N/A
EE	1200	1.10 ± .10	2,500	10,000	N/A 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 ± .10	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	N/A N/A
FL	1210	1.40 ± .15	2,000	8,000	N/A N/A	N/A N/A	N/A N/A
FL	1210		,	8,000	N/A N/A	N/A N/A	N/A N/A
		1.70 ± .20	2,000	,			
FN	1210	1.85 ± .20	2,000	8,000	N/A	N/A	N/A
FO	1210	1.50 ± .20	2,000	8,000	N/A	N/A	N/A
FP	1210	1.60 ± .20	2,000	8,000	N/A	N/A	N/A
FQ	1210	2.5 ± .20	1,500	8,000	N/A	N/A	N/A
FR	1210	2.25 ± .20	2,000	8,000	N/A	N/A	N/A
FS	1210	2.50 ± .20	1,000	4,000	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
GN	1812	1.70 ± .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	N/A
HC	1825	1.15 ± .15	1,000	4,000	N/A N/A	N/A	N/A
HD	1825	1.30 ± .15	1,000	4,000	N/A N/A	N/A N/A	N/A
HE				4,000			
	1825	1.40 ± .15	1,000		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
·	2225	1.40 ± .15	1,000	4,000	N/A	N/A	N/A

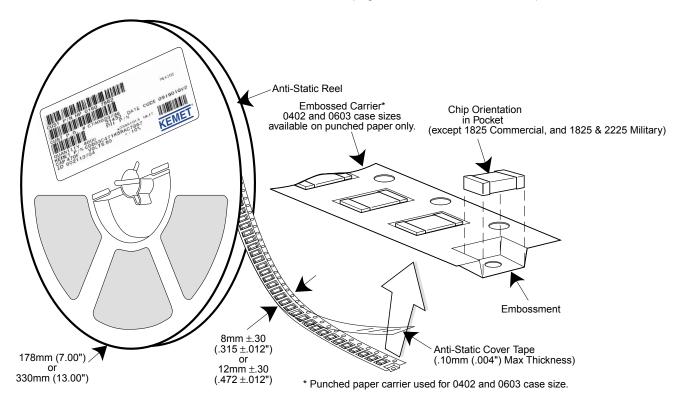
This chart refers to ceramic chip thickness codes on pages 73-76.



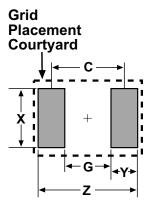
Packaging Information

Tape & Reel Packaging

KEMET offers Multilayer Ceramic Chip Capacitors packaged in 8mm and 12mm plastic tape on 7" and 13" reels in accordance with EIA standard 481-1: Taping of surface mount components for automatic handling. This packaging system is compatible with all tape fed automatic pick and place systems. See page 78 for details on reeling quantities for commercial chips and page 87 for MIL-PRF-55681 chips.



SURFACE MOUNT LAND DIMENSIONS - CERAMIC CHIP CAPACITORS - MM



		Ref	low So	lder			W	ave Sc	lder			
Dimension	Z	G	Х	Y(ref)	C(ref)	Z	G	X	Y(ref)	Smin		
0402	2.14	0.28	0.74	0.93	1.21	Not Recommended						
0603	2.78	0.68	1.08	1.05	1.73	3.18	0.68	0.80	1.25	1.93		
0805	3.30	0.70	1.60	1.30	2.00	3.70	0.70	1.10	1.50	2.20		
1206	4.50	1.50	2.00	1.50	3.00	4.90	1.50	1.40	1.70	3.20		
1210	4.50	1.50	2.90	1.50	3.00	4.90	1.50	2.00	1.70	3.20		
1812	5.90	2.30	3.70	1.80	4.10							
1825	5.90	2.30	6.90	1.80	4.10							
2220	7.00	3.30	5.50	1.85	5.15		Not	Recomme	nded			
2225	7.00	3.30	6.80	1.85	5.15							

Calculation Formula

Z = Lmin + 2Jt + Tt

G = Smax - 2Jh -Th

X = Wmin + 2Js + Ts Tt, Th, Ts = Combined tolerances



TANTALUM, CERAMIC AND ALUMINUM CHIP CAPACITORS

Packaging Information

Performance Notes

1. Cover Tape Break Force: 1.0 Kg Minimum.

Tape Width

2. Cover Tape Peel Strength: The total peel strength of the cover tape from the carrier tape shall be:

Peel Strength

8 mm 0.1 Newton to 1.0 Newton (10g to 100g)

12 mm 0.1 Newton to 1.3 Newton (10g to 130g)

The direction of the pull shall be opposite the direction of the carrier tape travel. The pull angle of the carrier tape shall be 165° to 180° from the plane of the carrier tape. During peeling, the carrier and/or cover tape shall be pulled at a velocity of 300 ± 10 mm/minute.

- **3. Reel Sizes:** Molded tantalum capacitors are available on either 180 mm (7") reels (standard) or 330 mm (13") reels (with C-7280). Note that 13" reels are preferred.
- **4. Labeling:** Bar code labeling (standard or custom) shall be on the side of the reel opposite the sprocket holes. Refer to EIA-556.

Embossed Carrier Tape Configuration: Figure 1

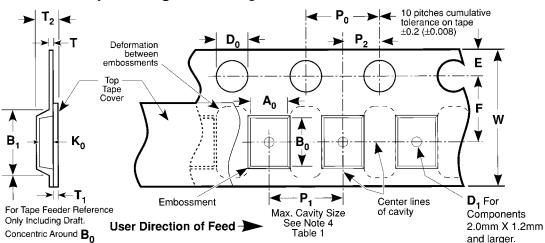


Table 1 —	EMBOSSED	TAPE	DIMENSIONS	(Metric will	aovern)
14610 1				(11101110 1111	901011

		С	onstant	Dimensions —	- Millimeters (li	nches)								
Tape Size	Do		E	P。	P ₂	T Max	T₁ Max							
8 mm and	1.5 +0.10 -0	-	±0.10	4.0 ±0.10	2.0 ±0.05	0.600	0.100							
12 mm	(0.059 +0.004, -((0.069	±0.004)	(0.157 ±0.004)	(0.079 ±0.002)	(0.024)	(0.004)							
	Variable Dimensions — Millimeters (Inches)													
Tape Size	Pitch	B₁ Max.	D₁ Min.	F	P ₁	R Min.	T ₂ Max	W	A ₀ B ₀ K ₀					
		Note 1	Note 2			Note 3			Note 4					
8 mm	Single (4 mm)	4.4	1.0	3.5 ±0.05	4.0 ±0.10	25.0	2.5	8.0 ±0.30						
		(0.173)	(0.039)	(0.138 ±0.002)	(0.157 ±0.004)	(0.984)	(0.098)	(.315 ±0.012)						
12 mm	Double (8 mm)	8.2 (0.323)	1.5 (0.059)	5.5 ±0.05 (0.217 ±0.002)	8.0 ±0.10 (0.315 ±0.004)	30.0 (1.181)	4.6 (0.181)	12.0 ±0.30 (0.472 ±0.012)						

NOTES

- 1. B1 dimension is a reference dimension for tape feeder clearance only.
- 2. The embossment hole location shall be measured from the sprocket hole controlling the location of the embossment. Dimensions of embossment location and hole location shall be applied independent of each other.
- 3. Tape with components shall pass around radius "R" without damage (see sketch A). The minimum trailer length (Fig. 2) may require additional length to provide R min. for 12 mm embossed tape for reels with hub diameters approaching N min. (Table 2)
- 4. The cavity defined by A₀, B₀, and K₀ shall be configured to surround the part with sufficient clearance such that the chip does not protrude beyond the sealing plane of the cover tape, the chip can be removed from the cavity in a vertical direction without mechanical restriction, rotation of the chip is limited to 20 degrees maximum in all 3 planes, and lateral movement of the chip is restricted to 0.5 mm

TANTALUM, CERAMIC AND ALUMINUM CHIP CAPACITORS



Packaging Information

Embossed Carrier Tape Configuration (cont.)

(12.992)

(0.059)

 (0.512 ± 0.008)

(0.795)

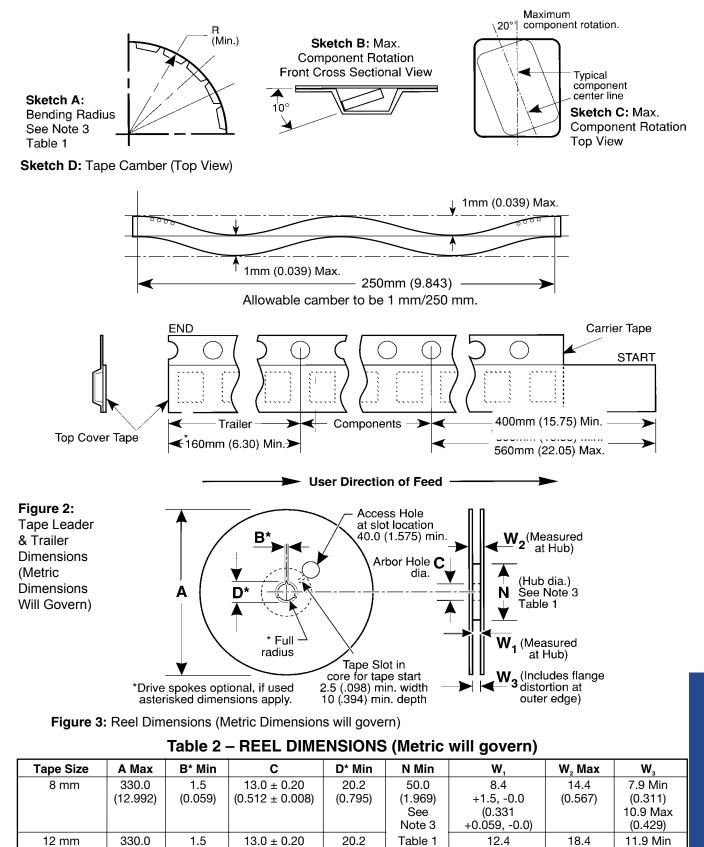
+2.0, -0.0

(0.488)

(0.724)

(0.469)

15.4 Max





Packaging Information

Punched Carrier (Paper Tape) Configuration (Ceramic Chips Only):

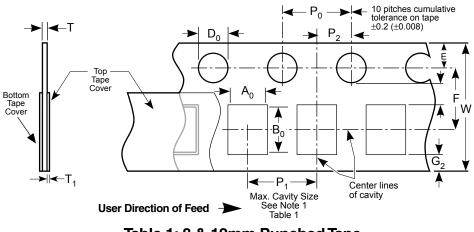


Table 1: 8 & 12mm Punched Tape (Metric Dimensions Will Govern)

Constant Dimensions - Millimeters (Inches)

Tape Size	D ₀	E	P ₀	P ₂	T ₁	G ₁	G ₂	R Min.
8mm and 12mm	1.5 +0.10, -0.0 (.059 +0.004, -0.0)		4.0 ± 0.10 (.157 ± 0.004)	2.0 ± 0.05 (.079 \pm 0.002)	(.004)			See Note 2

Table 1: 8 & 12mm Punched Tape (Metric Dimensions Will Govern)

Variable Dimensions - Millimeters (Inches)

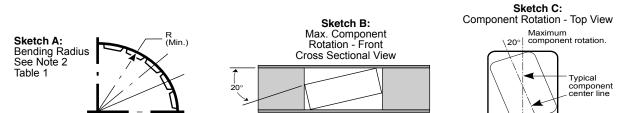
Tape Size	P ₁	F	w	A ₀ B ₀	Т
8mm 1/2 Pitch	2.0 ± 0.10 (.079 ±.004) See Require- ments Section 3.3 (d)	3.5 ± 0.05 (.138 ± .002)	8.0 ± 0.3 (.315 ± 0.012)	See Note 1 Table 1	1.1mm (.043) Max. for Paper Base Tape and 1.6mm (.063) Max. for Non-
8mm	$\begin{array}{c} 4.0 \pm 0.10 \\ (0.157 \pm .004) \end{array}$				Paper Base Compositions.
12mm	$\begin{array}{c} 4.0 \pm 0.10 \\ (0.157 \pm .004) \end{array}$	5.5 ± 0.05	12.0 ± 0.3		See Note 3.
12mm Double Pitch	$\begin{array}{c} 8.0 \pm 0.10 \\ (0.315 \pm .004) \end{array}$	(.217 ± .002)	(.472 ± .012)		

Note:

1. A_0 , B_0 and T determined by the maximum dimensions to the ends of the terminals extending from the body and/or the body dimensions of the component. The clearance between the ends of the terminals or body of the component to the sides and depth of the cavity (A_0 , B_0 and T) must be within 0.05mm (.002) minimum and 0.50mm (.020) maximum. The clearance allowed must also prevent rotation of the component within the cavity of not more than 20 degrees (see sketches A and B).

2. Tape with components shall pass around radius "R" without damage.

3. KEMET nominal thicknesses are: 0402 = 0.6mm and all others 0.95mm minimum.

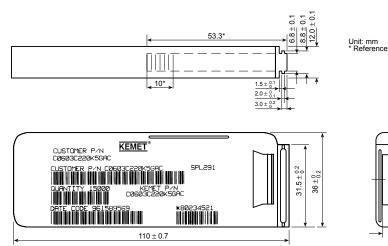




Packaging Information

Bulk Cassette Packaging (Ceramic Chips only)

(Meets Dimensional Requirements IEC-286-6 and EIAJ 7201)



Case Size	Dielectric	Voltage	Min. Cap Value	Max. Cap Value
0402	All	All	All	All
0603	All	All	All	All
0805	C0G	200 100 50	109 109 109	181 331 102
	X7R	200 100 50 25 16	221 221 221 221 221 221	392 103 273 104 104
	Y5V	25 16	104 104	224 224

Table 2 – Capacitance Values Available In Bulk Cassette Packaging

Table 1 – Capacitor Dimensions for Bulk Cassette Packaging – Millimeters

5.0

Metric Size Code	EIA Size Code	Length L	Width W	Thickness T	Bandwidth B	Minimum Separation S	Number of Pcs/Cassette
1005 1608 2012	0402 0603 0805	1.6 ± 0.07	$\begin{array}{c} 0.5 \pm 0.05 \\ 0.8 \pm 0.07 \\ 1.25 \pm 0.10 \end{array}$	$\begin{array}{c} 0.5 \pm .05 \\ 0.8 \pm .07 \\ 0.6 \pm .10 \end{array}$	0.2 to 0.4 0.2 to 0.5 0.5 to 0.75	0.3 0.7 0.75	50,000 15,000 10,000

Terminations: KEMET nickel barrier layer with a tin overplate.

CAPACITOR MARKING TABLE (Marking Optional - Not Available for 0402 Size or Y5V Dielectric)

Numeral	Capacitance (pF) For Various Numeral Identifiers								
Alpha Character	9	0	1	2	3	4	5	6	7
Α	0.10	1.0	10	100	1000	10,000	100,000	1,000,000	10,000,000
В	0.11	1.1	11	110	1100	11,000	110,000	1,100,000	11,000,000
С	0.12	1.2	12	120	1200	12,000	120,000	1,200,000	12,000,000
D	0.13	1.3	13	130	1300	13,000	130,000	1,300,000	13,000,000
E	0.15	1.5	15	150	1500	15,000	150,000	1,500,000	15,000,000
F	0.16	1.6	16	160	1600	16,000	160,000	1,600,000	16,000,000
G	0.18	1.8	18	180	1800	18,000	180,000	1,800,000	18,000,000
н	0.20	2.0	20	200	2000	20,000	200,000	2,000,000	20,000,000
J	0.22	2.2	22	220	2200	22,000	220,000	2,200,000	22,000,000
K	0.24	2.4	24	240	2400	24,000	240,000	2,400,000	24,000,000
L	0.27	2.7	27	270	2700	27,000	270,000	2,700,000	27,000,000
М	0.30	3.0	30	300	3000	30,000	300,000	3,000,000	30,000,000
N	0.33	3.3	33	330	3300	33,000	330,000	3,300,000	33,000,000
Р	0.36	3.6	36	360	3600	36,000	360,000	3,600,000	36,000,000
Q	0.39	3.9	39	390	3900	39,000	390,000	3,900,000	39,000,000
R	0.43	4.3	43	430	4300	43,000	430,000	4,300,000	43,000,000
S	0.47	4.7	47	470	4700	47,000	470,000	4,700,000	47,000,000
Т	0.51	5.1	51	510	5100	51,000	510,000	5,100,000	51,000,000
U	0.56	5.6	56	560	5600	56,000	560,000	5,600,000	56,000,000
V	0.62	6.2	62	620	6200	62,000	620,000	6,200,000	62,000,000
W	0.68	6.8	68	680	6800	68,000	680,000	6,800,000	68,000,000
X	0.75	7.5	75	750	7500	75,000	750,000	7,500,000	75,000,000
Y	0.82	8.2	82	820	8200	82,000	820,000	8,200,000	82,000,000
Z	0.91	9.1	91	910	9100	91,000	910,000	9,100,000	91,000,000
а	0.25	2.5	25	250	2500	25,000	250,000	2,500,000	25,000,000
b	0.35	3.5	35	350	3500	35,000	350,000	3,500,000	35,000,000
d	0.40	4.0	40	400	4000	40,000	400,000	4,000,000	40,000,000
е	0.45	4.5	45	450	4500	45,000	450,000	4,500,000	45,000,000
f	0.50	5.0	50	500	5000	50,000	500,000	5,000,000	50,000,000
m	0.60	6.0	60	600	6000	60,000	600,000	6,000,000	60,000,000
n	0.70	7.0	70	700	7000	70,000	700,000	7,000,000	70,000,000
t	0.80	8.0	80	800	8000	80,000	800,000	8,000,000	80,000,000
у	0.90	9.0	90	900	9000	90,000	900,000	9,000,000	90,000,000

Laser marking is available as an extra-cost option for most KEMET ceramic chips. Such marking is two sided, and includes a \bar{K} to identify KEMET, followed by two characters (per EIA-198 - see table below) to identify the capacitance value. Note that marking is not available for size 0402 nor for any Y5V chip. In addition, the 0603 marking option is limited to the \bar{K} only.



Example shown is 1,000 pF capacitor.