

► SAMSUNG : CL10B104KA8NNNC

CL	10	B	104	K	A	8	N	N	N	C
<b>Series</b>	<b>Size</b>	<b>Dielectric</b>	<b>Capacitance</b>	<b>Tolerance</b>	<b>Voltage</b>	<b>Thickness</b>	<b>Electrode/ Termination/ Plating</b>	<b>Products</b>	<b>Special</b>	<b>Packaging</b>
03 = 0201 05 = 0402 10 = 0603 21 = 0805 31 = 1206 32 = 1210 43 = 1812 55 = 2220	C = C0G P = P2H R = R2H S = S2H T = T2H U = U2H L = S2L B = X7R A = X5R F = Y5V	2 significant figures + number of zeros Use "R" for decimal point	A = ±0.05pF B = ±0.1pF C = ±0.25pF D = ±0.5pF F = ±1% G = ±2% J = ±5% K = ±10% M = ±20% Z = +80,-20%	Q = 6.3V P = 10V O = 16V A = 25V B = 50V C = 100V D = 200V E = 250V G = 500V H = 630V I = 1000V	3 = 0.30 5 = 0.50 8 = 0.80 A = 0.65 C = 0.85 H = 1.60 I = 2.00 J = 2.50 L = 3.20	A = Pd/Ag/ Sn 100% N = Ni/Cu/ Sn 100% G = Cu/Cu/ Sn 100%	A = Array (2-element) B = Array (4-element) C = High - Q L = LICC N = Normal P = Automotive W = 3 terminal chip	Various	B = Bulk P = Cassette C = Paper 7" D = Paper 13" (10,000EA) E = Embossing 7" F = Embossing 13" L = Paper 13" (15,000EA) O = Paper 10" S = Embossing 10"	

► MURATA : GRM188R71E104KA01D

GRM	18	8	R7	1E	104	K	A01	D
<b>Series</b>	<b>Size</b>	<b>Thickness</b>	<b>Dielectric</b>	<b>Voltage</b>	<b>Capacitance</b>	<b>Tolerance</b>	<b>Individual Specification Code</b>	<b>Packaging</b>
Ni Barrier	03 = 0201 15 = 0402 18 = 0603 21 = 0805 31 = 1206 32 = 1210 42 = 1808 43 = 1812 55 = 2220	3 = 0.3mm 5 = 0.5mm 8 = 0.8mm A = 1.0mm B = 1.25mm C = 1.6mm D = 2.0mm E = 2.5mm F = 3.2mm	5C = C0G R7 = X7R R6 = X5R E4 = Z5U F5 = Y5V	0J = 6.3V 1A = 10V 1C = 16V 1E = 25V 1H = 50V 2A = 100V 2E = 250V 2H = 500V 3A = 1000V	2 significant figures + number of zeros Use "R" for decimal point	B = ±0.1pF C = ±0.25pF D = ±0.5pF F = ±1% G = ±2% J = ±5% K = ±10% M = ±20% Z = +80,-20% P = +100, 0%		D = 7" Reel Paper L = 7" Reel Plastic J = 13" Reel Paper K = 13" Reel Plastic B = Bulk C = Bulk Cassette T = Bulk Tray

► TDK : C1608X7R1E104KT

C	1608	X7R	1E	104	K	I
<b>Series</b>	<b>Size</b>	<b>Dielectric</b>	<b>Voltage</b>	<b>Capacitance</b>	<b>Tolerance</b>	<b>Packaging</b>
	0603 = 0201 1005 = 0402 1608 = 0603 2012 = 0805 3216 = 1206 3225 = 1210 4532 = 1812 5650 = 2220	CG X7R Z5U Y5V	0J = 6.3V 1A = 10V 1C = 16V 1E = 25V 1H = 50V	2 significant figures + number of zeros Use "R" for decimal point	C = ±0.25pF D = ±0.5pF F = ±1% G = ±2% J = ±5% K = ±10% M = ±20% Z = +80,-20%	T = Reel B = Bulk

► KYOCERA : CM105X7R104K25AT

CM	105	X7R	104	K	25	A	T
Series	Size	Dielectric	Capacitance	Tolerance	Voltage	Termination	Packaging
03 = 0201 06 = 0402 105 = 0803 21 = 0805 316 = 1206 32 = 1210 42 = 1808 43 = 1812 55 = 2220	CG X8R X7R X5R Z5U Y5V Y5U	2 significant figures + number of zeros Use "R" for decimal point	B = $\pm 0.1\text{pF}$ C = $\pm 0.25\text{pF}$ D = $\pm 0.5\text{pF}$ F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ Z = +80, -20% P = +100, 0%	04 = 4V 06 = 6.3V 10 = 10V 16 = 16V 25 = 25V 50 = 50V 100 = 100V 250 = 250V 500 = 500V 1000 = 1000V	A = Ni Barrier	T = 7" Reel (4mm Pitch) L = 13" Reel (4mm Pitch) H = 7" Reel (2mm Pitch) N = 13" Reel (2mm Pitch) B = Bulk (Vinyl Bags) C = Bulk Cassette	

► TAIYO-YUDEN : TMK107BJ104K\_T

I	M	K	107	BJ	104	K	-	T
Voltage	Type	Termination	Size	Dielectric	Capacitance	Tolerance	Special	Packaging
A = 4V J = 6.3V L = 10V E = 16V T = 25V U = 50V	M = Multilayer V = Hi Q	K = Ni Barrier	105 = 0402 107 = 0803 212 = 0805 316 = 1206 325 = 1210 432 = 1812 550 = 2220	CG = C0G CH = C0H CJ = C0J CK = C0K BJ = X5R, X7R F = Y5V	2 significant figures + number of zeros Use "R" for decimal point	C = $\pm 0.25\text{pF}$ D = $\pm 0.5\text{pF}$ F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ Z = +80,-20%	Various	T = Reel B = Bulk

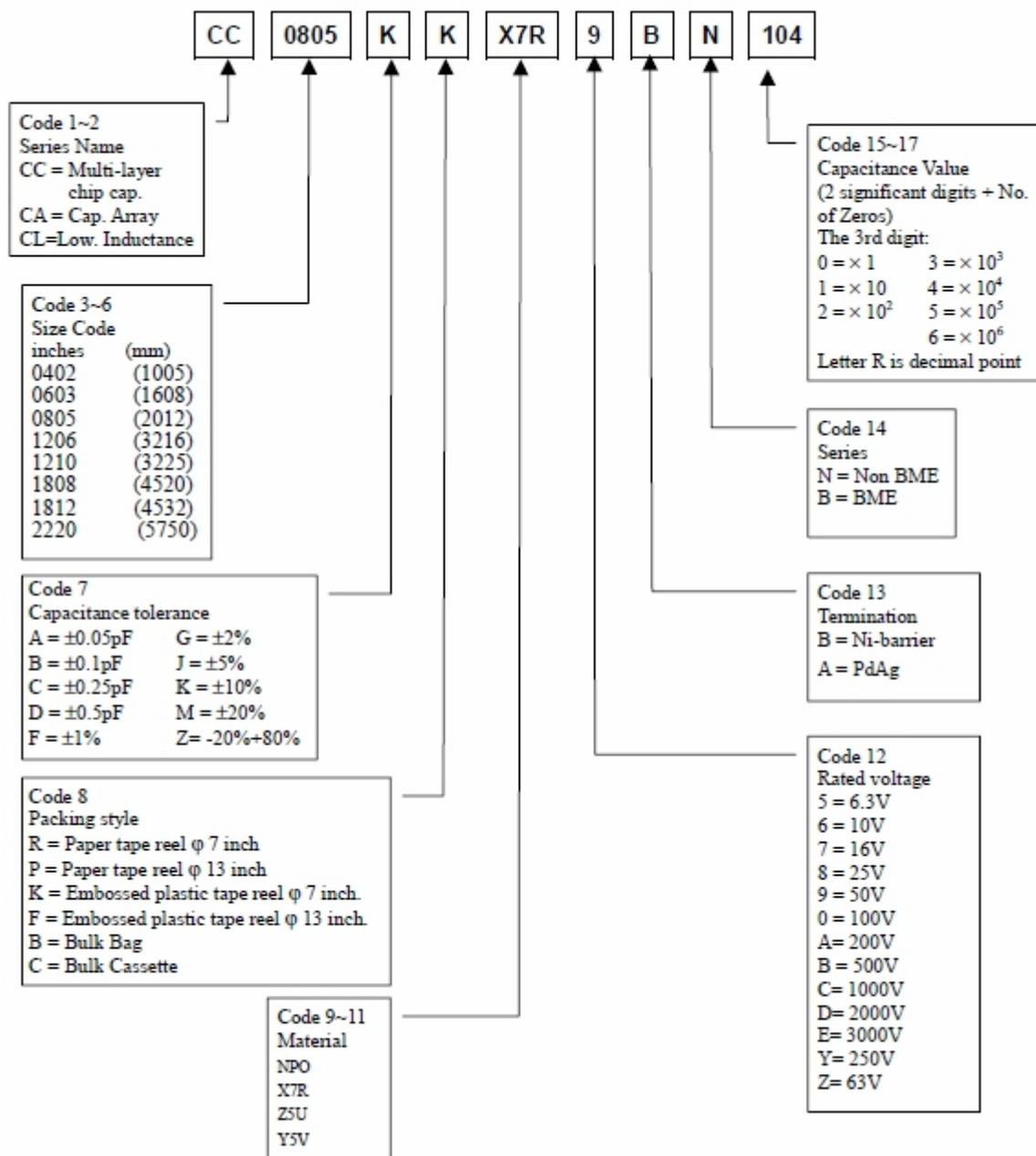
► KEMET : C0603C104K3RAC

C	0603	C	104	K	3	R	A	C
Series	Size	Specification	Capacitance	Tolerance	Voltage	Dielectric	Failure Rate	Termination
0402 0603 0805 1206 1210 1812 2220 2225	C = Standard A = GR900 P = Mil-C-55681 N = Mil-C-55681 Z = Mil-C-123 E = Mil Equivalent (Group A Only)	CDR01-CDR06 CDR31-CDR35	2 significant figures + number of zeros Use "R" for decimal point	B = $\pm 0.1\text{pF}$ C = $\pm 0.25\text{pF}$ D = $\pm 0.5\text{pF}$ F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ Z = +80, -20% P = +100, 0%	9 = 6.3V 8 = 10V 4 = 16V 3 = 25V 5 = 50V 1 = 100V 2 = 200V	G = C0G R = X7R P = X5R U = Z5U X = BX(Mil) V = Y5V	A = Standard M = 1.0 (Mil) P = 0.1 (Mil) R = 0.01 (Mil) S = 0.001 (Mil)	C = Ni w/Tn Plate H = Ni w/Solder T = Silver G = Gold Plated

▶ PANASONIC : ECJ1EB1E104K

ECJ	1	E	B	1E	104	K
Series	Size	Packaging	Dielectric	Voltage	Capacitance	Tolerance
Z = 0201 0 = 0402 1 = 0603 2 = 0805 3 = 1206 4 = 1210	X = Bulk E = Paper 2mm V = Paper 4mm F, Y = Plastic 4mm W = Large Reels 2mm Z = Large Reels 4mm C = Bulk Cassette	C = C0G B = X7R, X5R F = Y5V	0J = 6.3V 1A = 10V 1C = 16V 1E = 25V 1H = 50V 2A = 100V 2D = 200V	2 significant figures + number of zeros Use "R" for decimal point	C = $\pm 0.25\text{pF}$ D = $\pm 0.5\text{pF}$ F = $\pm 1\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ Z = $+80, -20\%$	

YAGEO/国巨



▶ PANASONIC : ECJ1EB1E104K

<u>ECJ</u>	<u>1</u>	<u>E</u>	<u>B</u>	<u>1E</u>	<u>104</u>	<u>K</u>
<b>Series</b>	<b>Size</b>	<b>Packaging</b>	<b>Dielectric</b>	<b>Voltage</b>	<b>Capacitance</b>	<b>Tolerance</b>
	Z = 0201 0 = 0402 1 = 0603 2 = 0805 3 = 1206 4 = 1210	X = Bulk E = Paper 2mm V = Paper 4mm F, Y = Plastic 4mm W = Large Reels 2mm Z = Large Reels 4mm C = Bulk Cassette	C = C0G B = X7R, X5R F = Y5V	0J = 6.3V 1A = 10V 1C = 16V 1E = 25V 1H = 50V 2A = 100V 2D = 200V	2 significant figures + number of zeros Use "R" for decimal point	C = ±0.25pF D = ±0.5pF F = ±1% J = ±5% K = ±10% M = ±20% Z = +80, -20%

华新 (Walsin)

<u>1206</u>	<u>F</u>	<u>106</u>	<u>Z</u>	<u>100</u>	<u>C</u>	<u>T</u>
<b>Size</b>	<b>Dielectric</b>	<b>Capacitance</b>	<b>Tolerance</b>	<b>Rated voltage</b>	<b>Termination</b>	<b>Packaging</b>
Inch (mm) 0402 (1005) 0603 (1608) 0805 (2012) 1206 (3216) 1210 (3225) 1812 (4532)	B=X7R X=X5R F=Y5V	Two significant digits followed by no. of zeros. And R is in place of decimal point.  eg.: 106=10x10 <sup>6</sup> =10μF	K=±10% M=±20% Z=-20/+80%	Two significant digits followed by no. of zeros. And R is in place of decimal point.  6R3=6.3 VDC 100=10 VDC 160=16 VDC 250=25 VDC 500=50 VDC	C=Cu/Ni/Sn	T=7" reeled G=13" reeled

▶ PANASONIC : ECJ1EB1E104K

<u>ECJ</u>	<u>1</u>	<u>E</u>	<u>B</u>	<u>1E</u>	<u>104</u>	<u>K</u>
<b>Series</b>	<b>Size</b>	<b>Packaging</b>	<b>Dielectric</b>	<b>Voltage</b>	<b>Capacitance</b>	<b>Tolerance</b>
	Z = 0201 0 = 0402 1 = 0603 2 = 0805 3 = 1206 4 = 1210	X = Bulk E = Paper 2mm V = Paper 4mm F, Y = Plastic 4mm W = Large Reels 2mm Z = Large Reels 4mm C = Bulk Cassette	C = C0G B = X7R, X5R F = Y5V	0J = 6.3V 1A = 10V 1C = 16V 1E = 25V 1H = 50V 2A = 100V 2D = 200V	2 significant figures + number of zeros Use "R" for decimal point	C = ±0.25pF D = ±0.5pF F = ±1% J = ±5% K = ±10% M = ±20% Z = +80, -20%

风华高科

<u>0805</u>	<u>CG</u>	<u>101</u>	<u>J</u>	<u>500</u>	<u>N</u>	<u>T</u>
①	②	③	④	⑤	⑥	⑦

※说明 NOTES:

①尺寸 DIMENSIONS

单位 (unit): inch/mm

尺寸规格 Size Code	0402	0603	0805	1206	1210	1808	1812	2225	3035
长×宽 (L×W) inch	0.04×0.02	0.06×0.03	0.08×0.05	0.12×0.06	0.12×0.10	0.18×0.08	0.18×0.12	0.22×0.25	0.30×0.35
长×宽 (L×W) mm	1.00×0.50	1.60×0.80	2.00×1.25	3.20×1.60	3.20×2.50	4.50×2.00	4.50×3.20	5.70×6.30	7.60×9.00

② 介质种类 DIELECTRIC STYLE

介质种类 (Dielectric Code)	CG	CH	HG	LG	PH	RH	SH	TH	UJ	SL	X	B	E	F
介质材料 (Dielectric)	COG	COH	HG	LG	PH	RH	SH	TH	UJ	SL	XSR	X7R	Z5U	Y5V

宇阳

**C** **0603** **X7R** **103** **K** **500** **N** **T** **D**

T T T T T T T T  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① **C:** 表示片式多层陶瓷电容器;
- ② **0603:** 表示产品的尺寸规格;
- ③ **X7R:** 表示介质的温度特性;
- ④ **103:** 表示标称电容量为  $10 \times 10^3 \text{pF} = 10 \text{nF}$ ;
- ⑤ **K:** 表示标称电容量允许偏差为  $\pm 10\%$ ;
- ⑥ **500:** 表示额定电压为 50V;
- ⑦ **N:** 表示 Ag (或 Cu) /Ni/Sn 三层结构;
- ⑧ **T:** 表示编带包装;
- ⑨ **D** 表示厚度的尺寸规格, 常规厚度产品该项可以空缺。