

About New Part Numbering System

There are no product specifications change due to transition to the new part number system.

KYOCERA PART NUMBER

e.g.)

KGM **03** **C** **R5** **0J** **225** **M** **H**
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ Option Code (When needed)

- ① Series : KGM Series (General)
- ② Size Code (EIA) : 0201
- ③ Thickness (max.) : 0.39mm
- ④ Dielectric : Operating Temperature Range: -55 to 85°C / ΔC max.: $\pm 15\%$ / Standard Temperature: 25°C
- ⑤ Rated Voltage : 6.3Vdc
- ⑥ Capacitance : 2.2 μ F
- ⑦ Tolerance : $\pm 20\%$
- ⑧ Packaging : Taping Material Paper / Taping Width 8mm / Cavity Pitch 2mm / Reel size $\phi 180$

① SERIES CODE

CODE	Type
KGM	General
KGT	Low Profile
KGU	High-Q
KAM	Automotive
KGN	Three Terminal Capacitors

② SIZE CODE

CODE	EIA	JIS
02	01005	0402
03	0201	0603
05	0402	1005
15	0603	1608
21	0805	2012
31	1206	3216
32	1210	3225

CODE	EIA	JIS	Thickness Code	Thickness (max.)
02	01005	0402	A	0.22
			B	0.33
			C	0.35
03	0201	0603	D	0.39
			C	0.55
			D	0.55
			Y	0.22
			A	0.55
05	0402	1005	B	0.65
			C	0.7
			D	0.8
			X	0.22
			Y	0.33
			Z	0.5
			A	0.9
15	0603	1608	B	0.95
			C	1.0
			Z	0.55
21	0805	2012	A	1.45
			C	0.95
			E	1.35
31	1206	3216	A	1.8
			F	1.75
			H	1.9
			L	0.95
			A	2.7
32	1210	3225	A	2.7

④ DIELECTRIC CODE

Temperature Compensation Type		
CODE	Temperature Range (°C)	ppm / °C
CG	-55 to 125	0
CH		± 30
		± 60

- All parts of COG will be marked as "CG" but will conform to the above table.
- Temperature coefficients are determined by calculation based on measurement at 20°C and 85°C.

High Dielectric Constant Type			
CODE	Temperature Range (°C)	ΔC max. (%)	Standard Temperature (°C)
R5	-55 to 85	± 15	25
S6	-55 to 105	± 22	
T6		+22/-33	
R7		± 15	
S7	-55 to 125	± 22	
T7		+22/-33	

⑤ VOLTAGE CODE

CODE	Rated Voltage	CODE	Rated Voltage
0E	2.5Vdc	1E	25Vdc
0G	4Vdc	1V	35Vdc
0J	6.3Vdc	1H	50Vdc
1A	10Vdc	2A	100Vdc
1C	16Vdc		

- Products with the same size and capacitance may be substituted with products with higher rated voltage.

⑥ CAPACITANCE CODE

Capacitance expressed in pF.
 Two significant digits plus number of zeros.
 For Values < 10pF, Letter R denotes decimal point,
 <1,000pF=1nF, 1,000nF=1 μ F>
 102 = 1,000pF=1nF

(Example)

CODE	Capacitance	CODE	Capacitance
R50	0.5pF	103	10nF
1R0	1pF	104	100nF
100	10pF	105	1 μ F
101	100pF	106	10 μ F
102	1nF	107	100 μ F

⑦ TOLERANCE CODE

Temperature Compensation Type (CG / CH)	
CODE	Tolerance
A*	± 0.05 pF
B	± 0.1 pF
C	± 0.25 pF
D	± 0.5 pF
G*	$\pm 2\%$
J	$\pm 5\%$
K	$\pm 10\%$

* : Option

High Dielectric Constant Type (R5/S6/T6/R7/S7/T7)	
CODE	Tolerance
J*	$\pm 5\%$
K	$\pm 10\%$
M	$\pm 20\%$

* : Option

⑧ PACKAGING CODE

CODE	Size Code	Material	Width	Pitch	Reel size
T	105 / 21	Paper	8mm	4mm	$\phi 180$
H	02 to 05	Paper	8mm	2mm	
Q	03 / 05	Paper	8mm	1mm	
U	21 to 32	Plastic	8mm	4mm	
P	02	Plastic	4mm	1mm	$\phi 330$
M	105 / 21	Paper	8mm	4mm	
N	02 to 05	Paper	8mm	2mm	
W	03 / 05	Paper	8mm	1mm	
L	21 to 32	Plastic	8mm	4mm	

(Reference) About Previous Part Number

CM **03** **X5R** **225** **M** **06** **A** **H**
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ Option Code
 (Individual specification or Thickness)

- ① Series : CM Series (General)
- ② Size Code (EIA) : 0201
- ③ Dielectric : Operating Temperature Range: -55 to 85°C / ΔC max.: $\pm 15\%$ / Standard Temperature: 25°C
- ④ Capacitance : 2.2 μ F
- ⑤ Tolerance : $\pm 20\%$
- ⑥ Rated Voltage : 6.3Vdc
- ⑦ Termination : Sn