Part Numbering

Chip Monolithic Ceramic Capacitors

(Part Number)				<u> </u>			102			
Product ID	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ		Ŭ	Ŭ	v

2 Series

Product ID	Code	Series		
GC	М	Power-train, Safety Equipment		
	3	Large Capacitance and High Allowable Ripple Current Power-train, Safety Equipment		
	J	Soft Termination Type Power-train, Safety Equipment		
	D	Serial Ceramic Capacitor Power-train, Safety Equipment		
	Е	Serial Ceramic Capacitor with Soft Termination Power-train, Safety Equipment		
	G	Conductivity Adhesive Compatible Type Power-train, Safety Equipment		

③Dimension (L×W)

Code	Dimension (L×W)	EIA
03	0.6×0.3mm	0201
15	1.0×0.5mm	0402
18	1.6×0.8mm	0603
21	2.0×1.25mm	0805
31	3.2×1.6mm	1206
32	3.2×2.5mm	1210
43	4.5×3.2mm	1812
55	5.7×5.0mm	2220

Dimension (T)					
Code	Dimension (T)				
3	0.3mm				
5	0.5mm				
6	0.6mm				
8	0.8mm				
9	0.85mm				
Α	1.0mm				
В	1.25mm				
С	1.6mm				
D	2.0mm				
E	2.5mm				
М	1.15mm				
Ν	1.35mm				
Q	1.5mm				
R	1.8mm				
Х	Depends on individual standards.				

5Temperature Characteristics

Temperature Temperature Characteristics		Operating	Capacitance Change Each Temperature (%)									
Code	Public		Reference	Temperature	Capacitance Change	Temperature Range	–55°C		–25°C		-10°C	
Code	STD Co	de	Temperature	Range	or Temperature Coefficient		Max.	Min.	Max.	Min.	Max.	Min.
2C	СН	JIS	20°C	20 to 125°C	0±60ppm/°C	–55 to 125°C	0.82	-0.45	0.49	-0.27	0.33	-0.18
3C	CJ	JIS	20°C	20 to 125°C	0±120ppm/°C	–55 to 125°C	1.37	-0.9	0.82	-0.54	0.55	-0.36
4C	СК	JIS	20°C	20 to 125°C	0±250ppm/°C	–55 to 125°C	2.56	-1.88	1.54	-1.13	1.02	-0.75
5C	C0G	EIA	25°C	25 to 125°C	0±30ppm/°C	–55 to 125°C	0.58	-0.24	0.4	-0.17	0.25	-0.11
5G	X8G	*2	25°C	25 to 150°C	0±30ppm/°C	–55 to 150°C	0.58	-0.24	0.4	-0.17	0.25	-0.11
7U	U2J	EIA	25°C	25 to 125°C *3	-750±120ppm/°C	–55 to 125°C	8.78	5.04	6.04	3.47	3.84	2.21
C7	X7S	EIA	25°C	–55 to 125°C	±22%	–55 to 125°C	-	-	-	-	-	-
D7	X7T	EIA	25°C	–55 to 125°C	+22%, -33%	–55 to 125°C	-	-	-	-	-	-
L8	X8L	*2	25°C	–55 to 150°C	+15%, -40%	–55 to 150°C	-	-	-	-	-	-
R1	R *1	JIS	20°C	–55 to 125°C	±15%	–55 to 125°C	-	-	-	-	-	-
R7	X7R	EIA	25°C	–55 to 125°C	±15%	–55 to 125°C	-	-	-	-	-	-

 $^{\ast}1$ Capacitance change is specified with 50% rated voltage applied.

*2 Murata Temperature Characteristic Code. *3 Rated Voltage 100Vdc max: 25 to 85°C

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6 Rated Voltage

Code	Rated Voltage
0J	DC6.3V
1A	DC10V
1C	DC16V
1E	DC25V
YA	DC35V
1H	DC50V
2A	DC100V
2E	DC250V
2W	DC450V
2J	DC630V
3A	DC1kV

Ocapacitance Tolerance

Code	Capacitance Tolerance			
С	±0.25pF			
D	±0.5pF			
F	±1%			
G	±2%			
J	±5%			
К	±10%			
М	±20%			

Individual Specification Code Expressed by three figures.

Package

Code	Package
L	ø180mm Embossed Taping
D	ø180mm Paper Taping
К	ø330mm Embossed Taping
J	ø330mm Paper Taping
В	Bulk
С	Bulk Case

Capacitance

Expressed by three-digit alphanumerics. The unit is pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two numbers.

If there is a decimal point, it is expressed by the capital letter "**R**." In this case, all figures are significant digits.

If any alphabet, other than "**R**", is included, this indicates the specific part number is a non-standard part.

Ex.)	Code	Capacitance			
	R50	0.5pF			
	1R0	1.0pF			
	100	10pF			
	103	10000pF			

