Part Numbering

Safety Standard Certifiedultilayer Ceramic Capacitors

Number)	GA3	52	Q	R7	GF	331	κ	W31	L
	1	2	8	4	6	6	0	8	9

Series

(Part

Code	Series
EVA	Safety Standard Certified Resin Molding SMD Type Multilayer Ceramic Capacitors for Automotive (Powertrain/Safety)
GA3	Safety Standard Certified Chip Multilayer Ceramic Capacitors for Consumer Electronics & Industrial Equipment
KCA	Safety Standard Certified Metal Terminal Type Multilayer Ceramic Capacitors for Automotive (Powertrain/Safety)

Dimensions (L×W)

Code	Dimensions (L×W)			
42	4.5×2.0mm			
43	4.5×3.2mm			
52	5.7×2.8mm			
55	5.7×5.0mm			
86	8.0×6.0mm			

As for KCA and EVA series, it represents the dimensions of the product body that does not include the metal terminal.

4Temperature Characteristics

Temperature Characteristic Codes		Τe	Temperature Characteristics		Operating	Capacitance Change Each Temperature (%)						
Codo Public			Reference	Temperature	Capacitance Change	Temperature Range	–55°C		*2		-10°C	
Code	STD Co	de	Temperature	Range	Coefficient	0	Max.	Min.	Max.	Min.	Max.	Min.
1X	SL	JIS	20°C	20 to 85°C	+350 to -1000ppm/°C	-55 to 125°C	-	-	-	-	-	-
7U	U2J	EIA	25°C	25 to 125°C*1	-750±120ppm/°C	-55 to 125°C	8.78	5.04	6.04	3.47	3.84	2.21
R7	X7R	EIA	25°C	-55 to 125°C	±15%	-55 to 125°C	-	-	-	-	-	-

*1 Rated Voltage 100Vdc max: 25 to 85°C

*2 –25°C (Reference Temperature 20°C) / –30°C (Reference Temperature 25°C)

GCertified Type

Code	Rated Voltage	Certified Type	
GB	X2 : 250Vac	Type GB	
GD	250Vac Type G		
GF	X1 : 250Vac/Y2 : 250Vac	Type GF	
MF	X1 : 250Vac/1000Vdc Y2 : 250Vac/1000Vdc	Type MF	
TF	X1 : 305Vac/1500Vdc Y2 : 305Vac/1500Vdc	Type TF	

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

Ex.)	Code	Capacitance
	R50	0.50pF
	1R0	1.0pF
	100	10pF
	103	10000pF

Capacitance Tolerance

Code	Capacitance Tolerance			
L	±5%			
к	±10%			
М	±20%			

Individual Specification

Expressed by three figures.

Packaging

muRata

Code	Packaging			
L	ø180mm Embossed Taping			
к	ø330mm Embossed Taping			

Please contact us if you find any part number not provided in this table.

Dimensions (T)

	GA3	KCA, EVA			
Code	Dimensions (T)	Code	Dimensions (T)		
А	1.0mm	L	2.8mm		
D	2.0mm	Q	3.7mm		
E	2.5mm	т	4.8mm		
Q	1.5mm	w	6.4mm		
х	Depends on individual standards.				