Part Numbering

Safety Standard Certifiedultilayer Ceramic Capacitors

GA3 | 52 | Q | R7 | GF | 331 | K | W31 | L (Part Number)

1 Series

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)

2Dimensions (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 $% \left(x\right) =\left(x\right) +\left(x\right) +\left($ body that does not include the metal terminal.

3Dimensions (T)

	GA3	KCA, EVA		
Code	Dimensions (T)	T) Code Dimensions (T)		
Α	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.			

4Temperature Characteristics

Temperature Characteristic Codes		Temperature Characteristics			Operating	Capacitance Change Each Temperature (%)						
Code	Public		Reference	Temperature	Capacitance Change or Temperature	Temperature Range	-55	5°C	*	2	-10	o°C
Code	STD Co	de	Temperature	Range	Coefficient		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

6Certified Type

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

6Capacitance

Expressed by three-digit alphanumerics. The unit is pico-far ad (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 $\ensuremath{^{\text{\tiny "}}}\ensuremath{\text{R}}\ensuremath{^{\text{\tiny "}}}$ is included, this indicates the specific part number is a non-standard part.

:X.)	Code
	R50

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

Capacitance Tolerance

Code	Capacitance Tolerance
J	±5%
K	±10%
М	±20%

8Individual Specification Expressed by three figures.

Packaging

Code	Packaging
L	ø180mm Embossed Taping
K	ø330mm Embossed Taping

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

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