Part Numbering

Radial Lead Type Monolithic Ceramic Capacitors

(Part Number)



●Product ID

2Series/Terminal

Product ID	Series/Terminal	
RP	E	Radial Lead Type Monolithic Ceramic Capacitors (DC25V-DC100V)
RH	E/D	Radial Lead Type Monolithic Ceramic Capacitors 150°C max. (for Automotive) (DC50V-DC100V)
RD	E	Radial Lead Type Monolithic Ceramic Capacitors (Only for Commercial Use) (DC25V-DC630V)

3Temperature Characteristics

Code	Temperature Characteristics	Reference Temperature	Temperature Range	Capacitance Change or Temperature Coefficient	Operating Temperature Range	
5C	C0G*	25°C	25 to 125°C	0±30ppm/°C	-55 to 125°C	
5G	X8G*	25°C	25 to 150°C	0±30ppm/°C	-55 to 150°C	
C7	X7S	25°C	-55 to 125°C	±22%	-55 to 125°C	
E4	Z5U	25°C	10 to 85°C	+22, -56%	10 to 85°C	
F1	F	20°C	-25 to 85°C	+30, -80%	-25 to 85°C	
F5	Y5V	25°C	-30 to 85°C	+22, -82%	-30 to 85°C	
L8	X8L	V01 250C	25°C	-55 to 125°C	±15%	-55 to 150°C
Lo		25.0	125 to 150°C	+15, -40%	-55 10 150°C	
R7	X7R	25°C	-55 to 125°C	±15%	-55 to 125°C	

^{*} Please refer to table for Capacitance change under reference temperature.

[•] Capacitance change from each temperature

		Capacitance Change from 25°C (%)					
Char.	Nominal Values (ppm/°C) *1	-55°C		-30°C		-10°C	
		Max.	Min.	Max.	Min.	Max.	Min.
COG	0±30	0.58	-0.24	0.40	-0.17	0.25	-0.11
X8G	0±30	0.58	-0.24	0.40	-0.17	0.25	-0.11

^{*1:} Nominal values denote the temperature coefficient within a range of 25 to 125 °C.

4 Rated Voltage

Code	Rated Voltage	
1E	DC25V	
1H	DC50V	
2A	DC100V	
2E DC250V		
2J	DC630V	

6 Capacitance

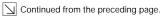
Expressed by three figures. The unit is pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros which follow the two numbers. If there is a decimal point, it is expressed by the capital letter ${}^{\shortparallel}\mathbf{R}^{\shortparallel}$. In this case, all figures are significant digits.

6Capacitance Tolerance

Code Capacitance Tolerance		Temperature Characteristics	Capacitance Step	
С	±0.25pF		≦5pF : 1pF Step	
D	±0.5pF	C0G/X8G	6 to 9pF : 1pF Step	
J	±5%		≥10 : E12 Series	
K	±10%	X7S/X7R/X8L	E6 Series	
М	±20%	X7S/Z5U/X7R	E3 Series	
Z	+80%, -20%	F/Y5V	E3 Series	

7 Dimensions (LxW)

Code	Dimensions (LxW)		
0	4.0×3.5mm or 5.0×3.5mm (Depends on Part Number List)		
1	4.0×3.5mm or 4.5×3.5mm or 5.0×3.5mm (Depends on Part Number Lis		
2	5.0 X 3.5mm or 5.5 X 4.0mm or 5.7 X 4.5mm (Depends on Part Number List		
3	5.0×4.5mm or 5.5×5.0mm (Depends on Part Number Lis		
4	7.5×5.0mm		
5	7.5×7.5mm (DC630V: 7.5×8.0mm)		
6	10.0×10.0mm		
7	12.5×12.5mm		
8	7.5×5.5mm		
U	7.7×12.5mm (DC630V: 7.7×13.0mm)		
W	5.5×7.5mm		



8 Lead Style

Code	Lead Style	Lead Spacing	
A1/A2	Straight Long	2.5mm	
B1	Straight Long	5.0mm	
C1	Straight Long	10.0mm	
DB	Straight Taping	2.5mm	
E1/E2	2 Straight Taping 5.0mr		
K1	Inside Crimp 5.0mm		
M1/M2	M1/M2 Inside Crimp Taping		
P1	Outside Crimp 2.5mm		
S1/S2	Outside Crimp Taping 2.5mm		

Lead distance between reference and bottom planes.

M1, S1 : H0 = 16.0 ± 0.5 mm M2, S2 : H0 = 20.0 ± 0.5 mm E1 : H = 17.5 ± 0.5 mm E2 : H = 20.0 ± 0.5 mm

9Individual Specification Code

Expressed by three figures

Packaging

Code	Packaging	
Α	Ammo Pack	
В	Bulk	

