● Part Numbering

Radial Lead Type Monolithic Ceramic Capacitors

(Part Number) **RP** **E** **R7** **1H** **104** **K** **2** **M1** **A03** **A**

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

❶Product ID

❷Series/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-DC1kV)

❸Temperature 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
D7	X7T	25°C	-55 to 125°C	+22, -33%	-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	25°C	-55 to 125°C	±15%	-55 to 150°C
			125 to 150°C	+15, -40%	
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

Char.	Nominal Values (ppm/˚C) *1	Capacitance Change from 25˚C (%)					
		-55˚C		-30˚C		-10˚C	
		Max.	Min.	Max.	Min.	Max.	Min.
C0G	0±30	0.58	-0.24	0.40	-0.17	0.25	-0.11
X8G							

*1: Nominal values denote the temperature coefficient within a range of 25 to 125˚C.

❹Rated Voltage

Code	Rated Voltage
1E	DC25V
1H	DC50V
2A	DC100V
2E	DC250V
2W	DC450V
2J	DC630V
3A	DC1kV

❺Capacitance

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 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.

❻Capacitance Tolerance

Code	Capacitance Tolerance	Temperature Characteristics	Capacitance Step
C	±0.25pF	C0G/X8G	≦5pF : 1pF Step
D	±0.5pF		6 to 9pF : 1pF Step
J	±5%		≧10 : E12 Series
K	±10%	X7S/X7T/X7R/X8L	E6 Series
M	±20%	X7S/X7T/Z5U/X7R/X8L	E3 Series
Z	+80%, -20%	F/Y5V	E3 Series

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❼Dimensions (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 List)
2	5.0×3.5mm or 5.5×4.0mm or 5.7×4.5mm (Depends on Part Number List)
3	5.0×4.5mm or 5.5×5.0mm or 6.0×5.5mm (Depends on Part Number List)
4	7.5×5.0mm
5	7.5×7.5mm (DC630V, DC1kV: 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, DC1kV: 7.7×13.0mm)
W	5.5×7.5mm

❽Lead 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	Straight Taping	5.0mm
K1	Inside Crimp	5.0mm
M1/M2	Inside Crimp Taping	5.0mm
P1	Outside Crimp	2.5mm
S1/S2	Outside Crimp Taping	2.5mm

Lead distance between reference and bottom planes.
M1, S1 : H_0 = 16.0±0.5mm
M2, S2 : H_0 = 20.0±0.5mm
E1 : H = 17.5±0.5mm
E2 : H = 20.0±0.5mm

❾Individual Specification Code

Expressed by three figures

❿Packaging

Code	Packaging
A	Ammo Pack
B	Bulk

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Murata:

RPER71H224K2S1C11A RPER71H225K7C1F02B RPER72A225K7C1F03B RPER71H104K2M1C11P RPER72A225K7C1F02B RPEF51H224Z2K1C11B RPER72A185K7C1F02B RPER71H104K2K1C11B RPEF51H685Z7C1F02B RPER71H335K7C1F03B RPEF51H224Z2S2C11A RPEF51H104Z2P1C11B RPEF51H224Z2S1C11A RPEF51H224Z2P1C11B RPER72A155K7C1D03B RPE5C2A220J2P1Z03B RPER71H224K2K1C11B RPEF51H224Z2M1C11A RPER71H224K2P1C11B RPEF52A225Z7C1F02B RPEF51H224Z2M2C11A RPER72A125K7C1F02B RPER72A155K7C1F03B RDER72E154K8K1C11B RDER72E154K8M1C11A RDER72E224K8M1C11A RDER72J683K8K1C11B RDER72J683K8M1C11A RDED72E224K8M1C11A RDED72E334K8M1C11A RDED72J683K8M1C11A RDED72W154K8M1C11A RDER73A333K8K1C11B RDER73A333K8M1C11A RDER73A473K8K1C11B RDER73A473K8M1C11A RDED72J683K8K1C11B RDED72E334K8K1C11B RDED72W154K8K1C11B RDED72E224K8K1C11B