## ● 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 |