

## ● Part Numbering

### Radial Lead Type Monolithic Ceramic Capacitors

(Part Number)

RP	E	R7	1H	104	K	2	M1	A03	A
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

① Product ID

② Series/Terminal

Product ID	Series/Terminal	
RP	E	Radial Lead Type Monolithic Ceramic Capacitors

③ Temperature Characteristics

Code	Temperature Characteristics	Temperature Range	Capacitance Change or Temperature Coefficient	Operating Temperature Range
5C	C0G	25 to 125°C	0±30ppm/°C	-55 to 125°C
E4	Z5U	10 to 85°C	+22, -56%	10 to 85°C
F5	Y5V	-30 to 85°C	+22, -82%	-30 to 85°C
R7	X7R	-55 to 125°C	±15%	-55 to 125°C

④ Rated Voltage

Code	Rated Voltage
1E	DC25V
1H	DC50V
2A	DC100V

⑤ 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 "R". In this case, all figures are significant digits.

⑥ Capacitance Tolerance

Code	Capacitance Tolerance	Temperature Characteristics	Capacitance Step
C	±0.25pF	C0G	≤5pF : 1pF Step
D	±0.5pF		6 to 9pF : 1pF Step
J	±5%		≥10 : E12 Series
K	±10%	X7R	E6 Series
M	±20%	Z5U	E3 Series
Z	+80%, -20%	Y5V	E3 Series

⑦ Dimensions (LxW)

Code	Dimensions (LxW)
1	3.5×3.0mm
2	5.0×3.5mm
3	5.0×4.5mm
4	7.5×5.0mm
5	7.5×7.5mm
6	10.0×10.0mm
7	12.5×12.5mm
8	7.5×5.5mm

⑧ Lead Style

Code	Lead Style	Lead Spacing
A1	Straight Long	F=2.5mm
B1	Straight Long	F=5.0mm
C1	Straight Long	other than above
E1/E2	Straight Taping	F=5.0mm
K1	Inside Crimp	F=5.0mm
M1/M2	Inside Crimp Taping	F=5.0mm
P1	Outside Crimp	F=2.5mm
S1/S2	Outside Crimp Taping	F=2.5mm

Lead distance between reference and bottom planes.

M1, S1 : H<sub>0</sub> = 16.0±0.5mm

M2, S2 : H<sub>0</sub> = 20.0±0.5mm

E1 : H = 17.5±0.5mm

E2 : H = 20.0±0.5mm

⑨ Individual Specification Code

Expressed by three figures

⑩ Packaging

Code	Packaging
A	Ammo Pack
B	Bulk

## ■ PACKAGING

Two types of packaging for epoxy coated monolithic ceramic capacitors are available.

### 1. BULK PACKAGING

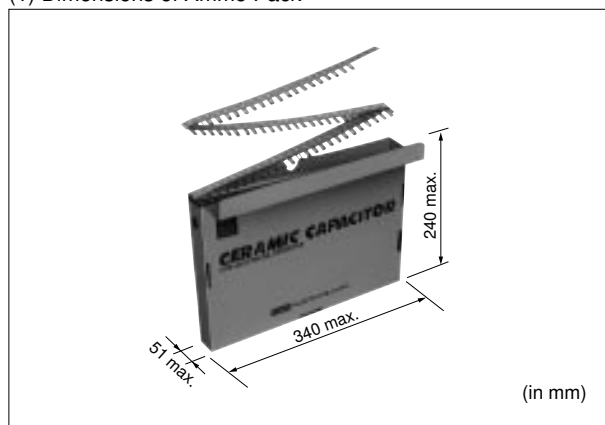
Minimum quantity\*1

Dimensions code	Dimensions (LxW)	Minimum quantity (pcs./bag)
1	3.5x3.0mm	500
2	5.0x3.5mm	
3	5.0x4.5mm	
4	7.5x5.0mm	
5	7.5x7.5mm	
6	10.0x10.0mm	
8	7.5x5.5mm	100
7	12.5x12.5mm	

Please order with an integral multiple of the minimum quantity above.

### 2. TAPE CARRIER PACKAGING

#### (1) Dimensions of Ammo Pack



#### (2) Minimum quantity\*1

Dimensions code	Dimensions (LxW)	Minimum quantity (pcs./Ammo Pack)
2	5.0x3.5mm	2000
3	5.0x4.5mm	
4	7.5x5.0mm	
5	7.5x7.5mm	2000*2
8	7.5x5.5mm	1500
6	10.0x10.0mm	

Please order with an integral multiple of the minimum quantity above.

\*2 1500 pcs. for RPER71H335K5□□C03A, RPER71H475K5□□C03A, RPER72A334K5□□C03A, RPER72A105K5□□C03A  
(Two blank columns are filled with the lead style code.)

#### (3) Marking on Ammo Pack

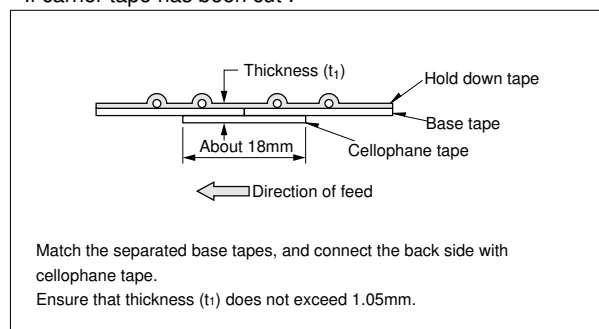
The following items are in the marking position on the side of the ammo pack.

- (a) Part Number
- (b) Quantity
- (c) Inspection No.
- (d) Manufacturer's name, or its abbreviation.
- (e) Other requirements.

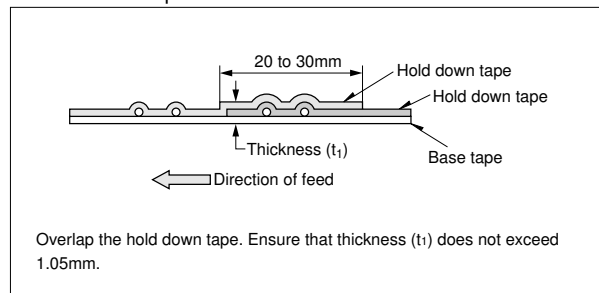
#### (4) Incidental condition of taping

Tape splicing

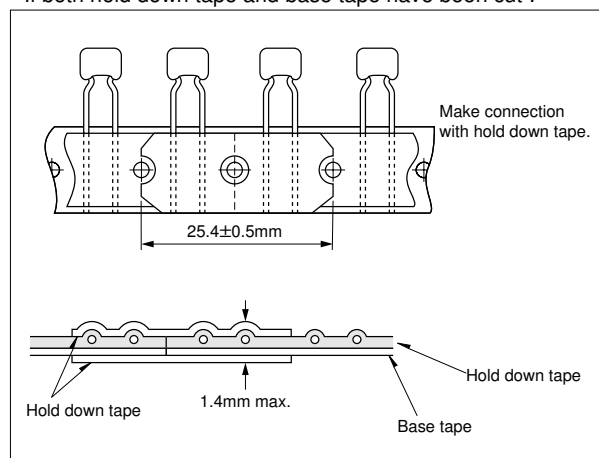
- If carrier tape has been cut :



- If hold down tape has been cut :



- If both hold down tape and base tape have been cut :



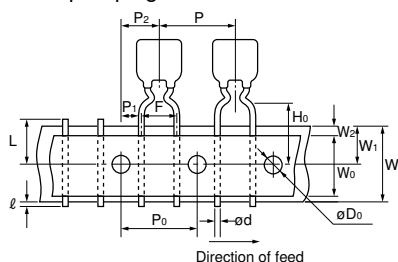
\*1 "Minimum Quantity" means the numbers of units of each delivery or order. The quantity should be an integral multiple of the "minimum quantity". (Please note that the actual delivery quantity in a package may change sometimes.)

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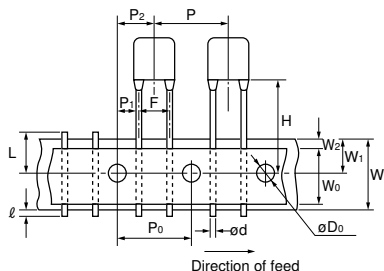
## (5) Taping dimensions

### Inside Crimp Taping



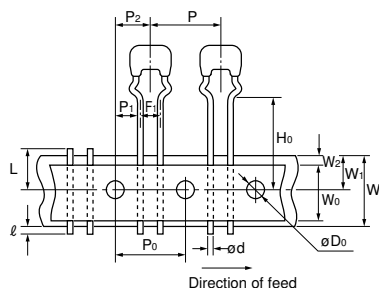
Dimensions and Lead style code	Dimensions (LxW)
2M1	5.0x3.5mm
2M2	
3M1	5.0x4.5mm
3M2	
4M1	7.5x5.0mm
4M2	
8M1	7.5x5.5mm
8M2	

### Straight Taping



Dimensions and Lead style code	Dimensions (LxW)
5E1	7.5x7.5mm
5E2	
6E1	10.0x10.0mm
6E2	

### Outside Crimp Taping



Dimensions and Lead style code	Dimensions (LxW)
2S1	5.0x3.5mm
2S2	
3S1	5.0x4.5mm
3S2	

Item	Code	Dimensions (mm)
Pitch of Component	P	12.7
Pitch of Sprocket Hole	P0	12.7±0.2
Lead Spacing	F1	2.5 <sup>+0.4</sup> <sub>-0.2</sub>
	F	5.0 <sup>+0.6</sup> <sub>-0.2</sub>
Length from Hole Center to Component Center	P2	6.35±1.3
Length from Hole Center to Lead	P1	3.85±0.7
	P1	5.1±0.7 (S1) (S2)
		254±1.5 Total length of components pitch X 20
Body Dimension		See the individual product specification
Deviation Along Tape, Left or Right Defect	ΔS	±2.0
Carrier Tape Width	W	18.0±0.5
Position of Sprocket Hole	W1	9.0 <sup>+0</sup> <sub>-0.5</sub>
Lead Distance between Reference and Bottom Plane	H0	16.0±0.5 (M1) (S1)
	H0	20.0±0.5 (M2) (S2)
For Straight Lead Type	H	20±0.5 (E2), 17.5±0.5 (E1)
Diameter of Sprocket Hole	D0	4.0±0.1
Lead Diameter	d	0.5±0.05
Total Tape Thickness	t1	0.6±0.3
Total Thickness of Tape and Lead Wire	t2	1.5 max.
Body Thickness	T	See the individual product specification
Deviation Across Tape	Δh1	1.0 max.
	Δh2	1.0 max.
Portion to Cut in Case of Defect	L	11.0 <sup>+0</sup> <sub>-1.0</sub>
Protrusion Length	ℓ	0.5 max.
Hold Down Tape Width	W0	9.5 min.
Hold Down Tape Position	W2	1.5±1.5
Coating Extension		See the individual product specification

