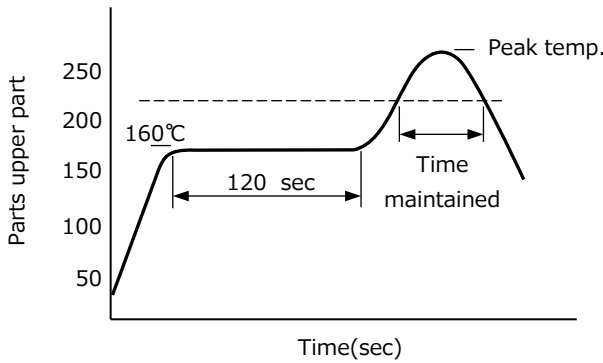


Mounting specification

Specifications for surface mount type

- Reflow guaranteed condition
< RoHS compliant >



Size code	C, D, D8	F, G, G12, G16	
Peak temp.	260°C (255°C)	245°C	260°C
Time in peak temperature	≥ 250°C 5 s (10 s)	≥ 240°C 10 s	≥ 250°C 5 s
Time maintained	≥ 230°C 30 s	≥ 230°C 30 s	≥ 230°C 30 s
	≥ 217°C 40 s	≥ 217°C 40 s	≥ 217°C 40 s
	≥ 200°C 70 s	≥ 200°C 70 s	≥ 200°C 70 s
Time of reflow	2 times	2 times	1 time

- * For reflow, use a thermal condition system such as infrared and radiation (IR) or hot blas
- * Panasonic have several series available for pure Tin terminal ZVEI reflow based on J-STD-020D (JEDEC). (Please contact sales for details.)

Specifications for radial lead type

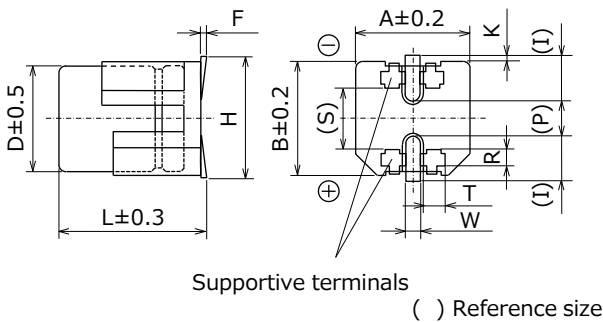
- Flow soldering condition
< RoHS compliant >

Soldering condition	Temperature	Time	Flow number
	260°C + 5°C or less	10 sec +1 sec or less	1 time

Vibration-proof products

The size and shape are different from standard products. Please inquire details of our company.

< Size code : D, D8 >

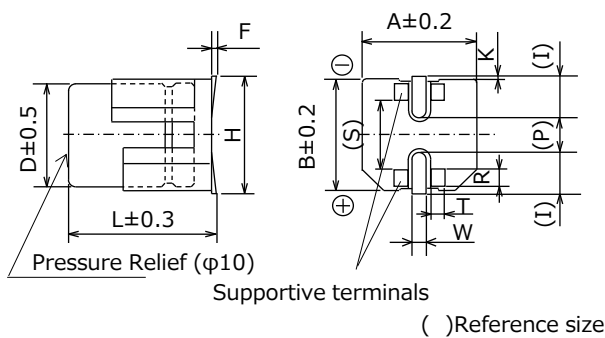


Unit : mm

Size code	φD	L	A, B	H max.	F	I	W
D	6.3	6.1	6.6	7.8	0 to +0.15	2.4	0.65±0.1
D8	6.3	8.0	6.6	7.8	0 to +0.15	2.4	0.65±0.1

Size code	P	K	R	S	T
D	2.2	0.35 ^{+0.15/-0.20}	1.1±0.2	3.3	1.05±0.2
D8	2.2	0.35 ^{+0.15/-0.20}	1.1±0.2	3.3	1.05±0.2

< Size code : F, G, G12, G16 >



Unit : mm

Size code	φD	L	A, B	H max.	F	I	W
F	8.0	10.5	8.3	10.0	0 to +0.15	3.4	1.2±0.2
G	10.0	10.5	10.3	12.0	0 to +0.15	3.5	1.2±0.2
G12	10.0	12.8	10.3	11.0 ^{*1}	0 to +0.15	3.2	1.2±0.2
G16	10.0	16.8	10.3	11.0 ^{*1}	0 to +0.15	3.2	1.2±0.2

*1:±0.2

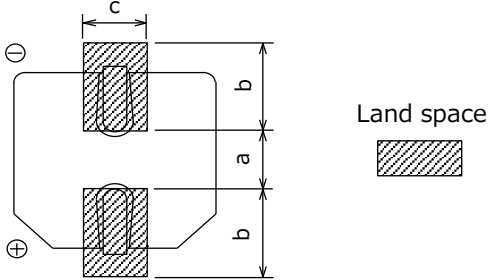
Size code	P	K	R	S	T
F	3.1	0.70±0.2	0.70±0.2	5.3	1.3±0.2
G	4.6	0.70±0.2	0.70±0.2	6.9	1.3±0.2
G12	4.6	—	0.70±0.2	6.9	1.3±0.2
G16	4.6	—	0.70±0.2	6.9	1.3±0.2

Mounting specification

Land / Pad pattern

The circuit board land/pad pattern size for chip capacitors is specified in the following table. The land pitch influences installation strength and consider it.

< Standard products >



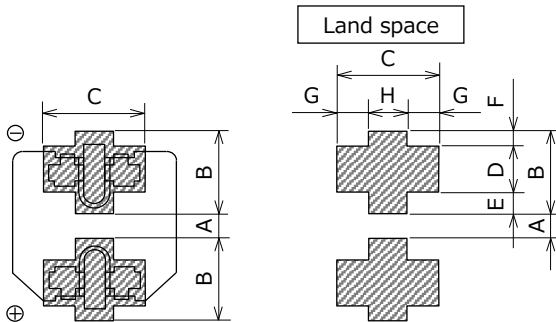
Unit : mm

Size code	a	b	c
C : $\phi 5 \times L5.8$	1.5	2.8	1.6
D : $\phi 6.3 \times L5.8$	1.8	3.2	1.6
D8 : $\phi 6.3 \times L7.7$	1.8	3.2	1.6
F : $\phi 8 \times L10.2$	3.1	4.0	2.0
G : $\phi 10 \times L10.2$	4.6	4.1	2.0
G12 : $\phi 10 \times L12.5$	4.6	4.1	2.0
G16 : $\phi 10 \times L16.5$	4.6	4.1	2.0

When size "a" is wide, back fillet can be made, decreasing fitting strength.

* Take mounting conditions, solderability and fitting strength into consideration when selecting parts for your company's design.

< Vibration-proof products >

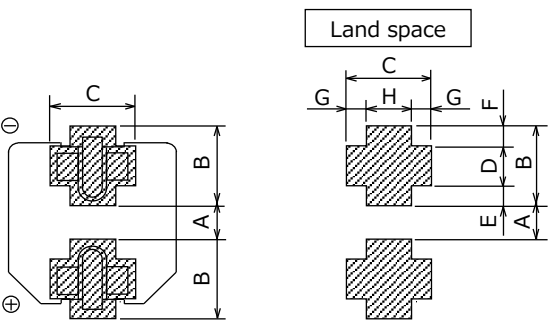


Unit : mm

Size code	A	B	C	D
D : $\phi 6.3 \times L5.8$	1.2	3.6	3.2	2.0
D8 : $\phi 6.3 \times L7.7$	1.2	3.6	3.2	2.0

Size code	E	F	G	H
D : $\phi 6.3 \times L5.8$	0.95	0.65	1.0	1.2
D8 : $\phi 6.3 \times L7.7$	0.95	0.65	1.0	1.2

When size "A" is wide, back fillet can be made, decreasing fitting strength.



Unit : mm

Size code	A	B	C	D
F : $\phi 8 \times L10.2$	2.7	4.0	4.7	1.3
G : $\phi 10 \times L10.2$	3.9	4.4	4.7	1.3
G12 : $\phi 10 \times L12.8$	3.9	4.4	4.7	1.3
G16 : $\phi 10 \times L16.8$	3.9	4.4	4.7	1.3

Size code	E	F	G	H
F : $\phi 8 \times L10.2$	1.0	1.7	1.1	2.5
G : $\phi 10 \times L10.2$	1.2	1.9	1.1	2.5
G12 : $\phi 10 \times L12.8$	1.2	1.9	1.1	2.5
G16 : $\phi 10 \times L16.8$	1.2	1.9	1.1	2.5

When size "A" is wide, back fillet can be made, decreasing fitting strength.

* Take mounting conditions, solderability and fitting strength into consideration when selecting parts for your company's design.

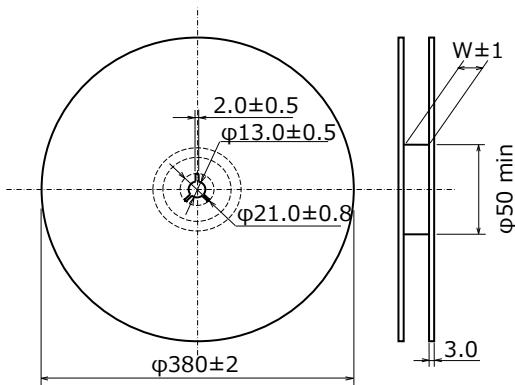
* The vibration-proof capacitors of size $\phi 6.3$ has support terminals extending from the bottom side to the lead edge.

Then, make sure to find appropriate soldering conditions to form fillet on the support terminals if required for appearance inspection.

Packaging specifications

Specifications for surface mount type

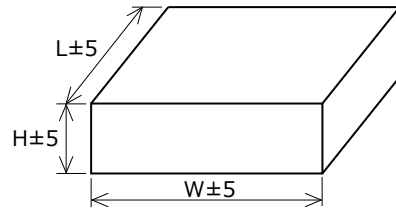
- Reel dimensions (not to scale)



Unit : mm

Size code	W
C	14.0
D, D8	18.0
F, G, G12, G16	26.0

- Dimensions of outer carton box



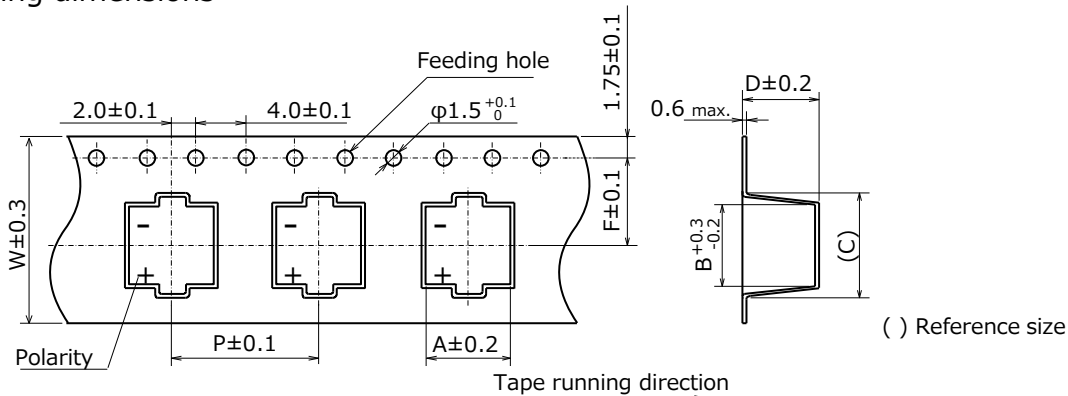
Unit : mm

Size code	H	W, L
C	220	395
D, D8	250	395
F, G, G12, G16	220	395

- Min.packing quantity

Size code	Min.packing (pcs.)
C, D	1000
D8	900
F, G	500
G12	400
G16	250

- Taping dimensions



* Ask factory for technical specifications

Unit : mm

Size code	A	B	C	D	P	F	W
C	5.7	5.7	8.0	6.4	12.0	5.5	12.0
D	7.0	7.0	9.0	6.4	12.0	7.5	16.0
D8	7.0	7.0	9.0	8.4	12.0	7.5	16.0
F	8.7	8.7	12.5	11.0	16.0	11.5	24.0
G	10.7	10.7	14.5	11.0	16.0	11.5	24.0
G12	10.7	10.7	14.5	13.7	16.0	11.5	24.0
G16	10.7	10.7	14.5	17.5	20.0	11.5	24.0

Specifications for radial lead type

- Packing quantity

Size code	Quantity (pcs. / Bag)	Quantity (pcs. / Box)
F (φ8×L9.5)	200	4000
G (φ10×L9.5)	200	2000