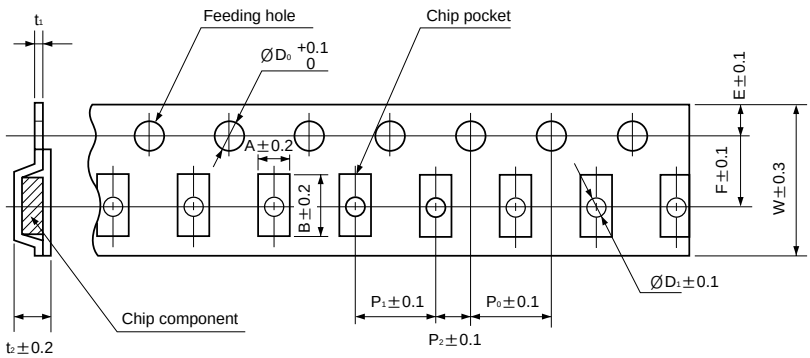
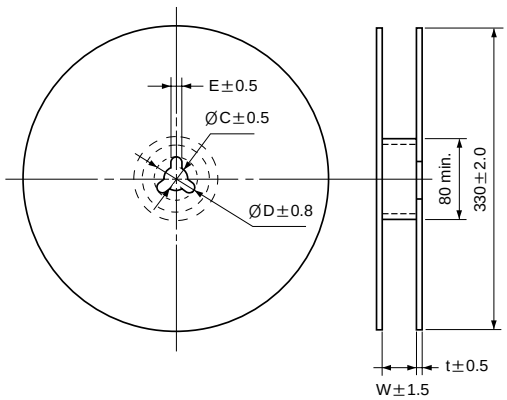
Taping Specifications for SMD type Polymer Capacitors (Horizontal type)

Carrier Tape



Size code	A	B	ØD₀	ØD₁	E	F	P₀	P₁	P₂	t₁	t₂	W
A	4.7	7.7	1.5	1.6	1.75	5.5	4.0	8.0	2.0	0.3	2.2	12.0
C	4.7	7.7	1.5	1.6	1.75	5.5	4.0	8.0	2.0	0.3	3.4	12.0
D	4.7	7.7	1.5	1.6	1.75	5.5	4.0	8.0	2.0	0.3	4.5	12.0

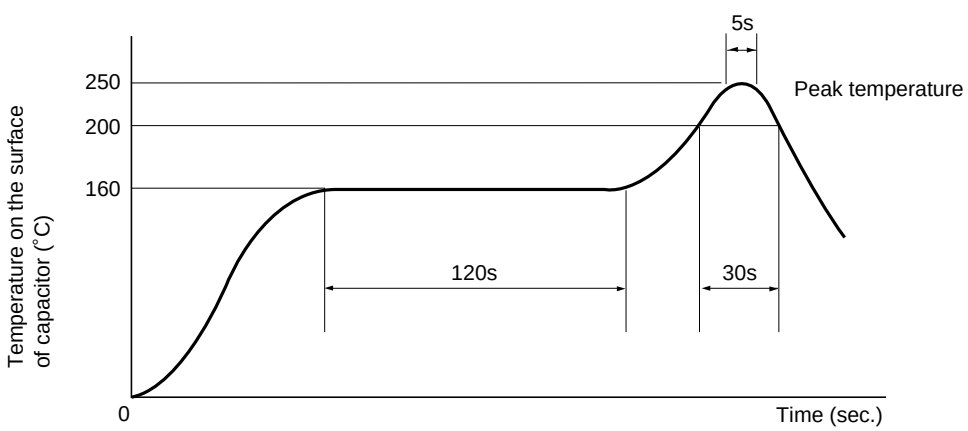
Packaging Specifications



Size code	Q'ty / Reel
A	3000 pcs.
C	2000 pcs.
D	2000 pcs.

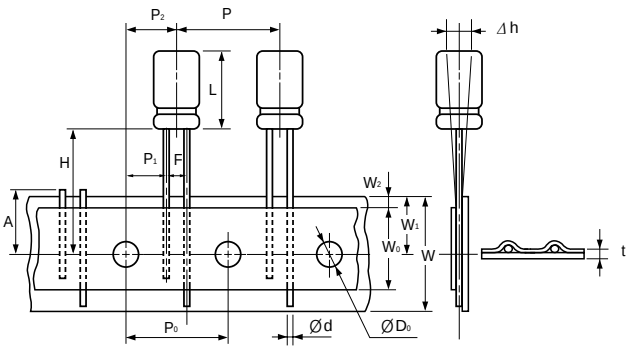
ØC	ØD	E	W	t
13.0	21.0	2.0	14.0	2.0

Recommendable reflow soldering temperature



Taping Specifications for Lead Type Polymer Capacitors

DRAWING I

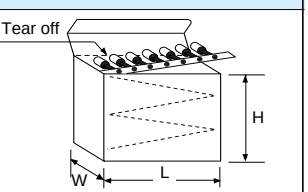


Applicable Drawing No.			I			
Description	Symbol	Tolerance	Ø6.3	Ø8		Ø10
Body Height	L	+1	6	9	12	13
Lead Dia.	Ød	±0.05	0.45	0.60	0.60	0.6
Body Pitch	P	±1.0	12.7			
Feeding Hole Pitch	P_0	±0.2	12.7			
Feeding Hole Alignment	P_1	±0.7	5.1			3.85
Feeding Hole Alignment	P_2	±1.0	6.35			
Lead Center Spacing	F	+0.6/-0.2	2.5	3.5		5.0
Body Inclination	Δh	±2.0	0			
Tape Width	W	±0.5	18.0			
Adhesive Tape Width	W_0	min.	7.0			
Feeding Hole Alignment	W_1	±0.5	9.0			
Adhesive Tape Margin	W_2	max.	2.0			
Length from Seating Plane	H	±0.5	17.5	20		18.5
Feeding Hole Dia.	$ØD_0$	±0.2	4.0			
Total Tape Thickness	t	±0.2	0.7			
Cut Lead Height	A	max.	11.0			
Taping Code / Ammo	⊕ leader		PC	PF		PA

PACKAGING Q'ty(pcs.) / BOX

Size		Ammo			
ØD	Case Height	L	H	W	Q'ty
6.3	6	332	230	42	1500
8	9	332	230	42	1000
	12	332	230	49	1000
10	13	332	190	51	500

Ammo



BULK PACKING QUANTITY(PCS) / BOX

Size		V-BAG	INNER BOX	MIDDLE BOX
D	L			
6.3	6	750	6000	24000
	8	750	6000	24000
8	9	400	3200	12800
	12	400	3200	12800
10	13	250	1500	6000

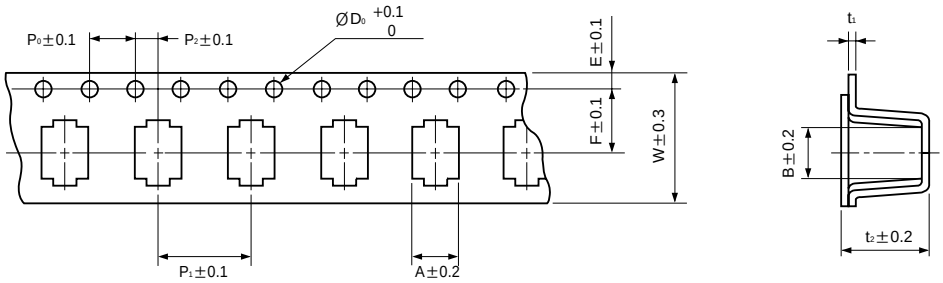
CUTTING PACKING QUANTITY(PCS) / BOX

Size		V-BAG	INNER BOX	MIDDLE BOX
D	L			
6.3	6	750	6000	24000
	8	750	6000	24000
8	9	500	4000	16000
	12	400	3200	12800
10	13	250	1500	6000

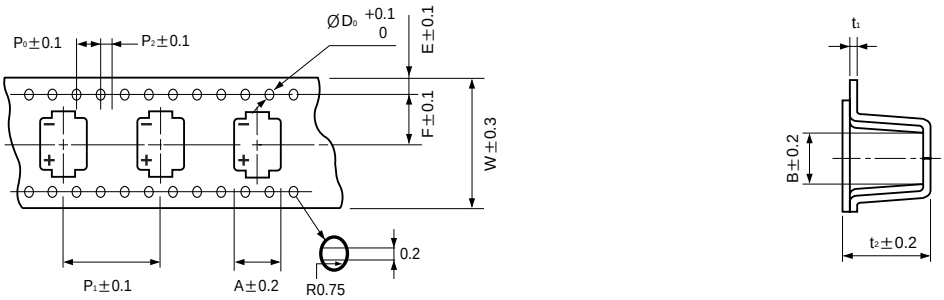
Taping Specifications for Chip Type Capacitors

Carrier Tape

· **Fig.1**

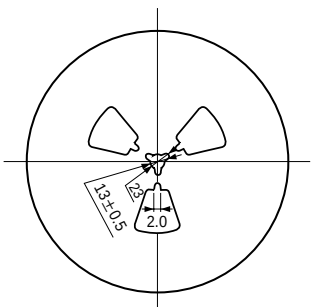


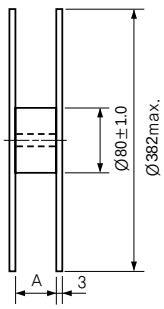
· **Fig.2**



ØD×L	A	B	ØD₀	E	F	P₀	P₁	P₂	t₁	t₂	W	Fig.
4 × 5.3	4.7	4.7	1.5	1.75	5.5	4.0	8.0	2.0	0.4	5.7	12.0	1
5 × 5.3	5.7	5.7	1.5	1.75	5.5	4.0	12.0	2.0	0.4	5.7	12.0	
6.3× 5.3	7.0	7.0	1.5	1.75	7.5	4.0	12.0	2.0	0.4	5.7	16.0	
6.3× 5.8	7.0	7.0	1.5	1.75	7.5	4.0	12.0	2.0	0.4	6.3	16.0	
6.3× 7.7	7.0	7.0	1.5	1.75	7.5	4.0	12.0	2.0	0.4	8.2	16.0	
8 × 6.2	8.7	8.7	1.5	1.75	7.5	4.0	12.0	2.0	0.4	6.8	16.0	
8 × 10	8.7	8.7	1.5	1.75	11.5	4.0	16.0	2.0	0.4	11.0	24.0	
10 × 10	10.7	10.7	1.5	1.75	11.5	4.0	16.0	2.0	0.4	11.0	24.0	
12.5×13.5	14.0	14.0	1.5	1.75	14.2	4.0	24.0	2.0	0.5	14.0	32.0	2
16 ×16.5	17.5	17.5	1.5	1.75	20.2	4.0	28.0	2.0	0.5	16.8	44.0	
16 ×21.5	17.5	17.5	1.5	1.75	20.2	4.0	28.0	2.0	0.5	21.8	44.0	
18 ×16.5	19.5	19.5	1.5	1.75	20.2	4.0	32.0	2.0	0.5	16.8	44.0	
18 ×21.5	19.5	19.5	1.5	1.75	20.2	4.0	32.0	2.0	0.5	21.8	44.0	

Reel (Taping code : VR)

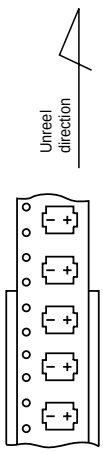




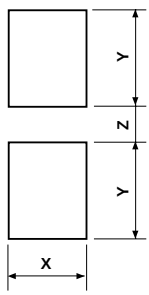
ØD×L	A
4 × 5.3	14
5 × 5.3	14
6.3 × 5.3	18
6.3 × 5.8	18
6.3 × 7.7	18
8 × 6.2	18
8 × 10	26
10 × 10	26
12.5×13.5	34
16, 18	46

ØD×L	Q'ty/Reel(pcs.)	Q'ty/Box(pcs.)
4 × 5.3	2000	20000
5 × 5.3	1000	10000
6.3 × 5.3	1000	10000
6.3 × 5.8	1000	10000
6.3 × 7.7	900	9000
8 × 6.2	1000	10000
8 × 10	500	4000
10 × 10	500	4000
12.5×13.5	200	1000
16 ×16.5	125	750
18 ×16.5		
16 ×21.5	75	375
18 ×21.5		

Polarity



Recommended Land Size



ØD×L	X	Y	Z
4 × 5.3	1.6	2.6	1.0
5 × 5.3	1.6	3.0	1.4
6.3 × 5.3	1.6	3.5	2.0
6.3 × 5.8	1.6	3.5	2.0
6.3 × 7.7	1.6	3.5	2.0
8 × 6.2	2.5	4.0	2.0
8 × 10	2.5	3.5	3.0
10 × 10	2.5	4.0	4.0
12.5×13.5	4.0	7.5	7.0
16 ×16.5	6.0	8.5	9.5
16 ×21.5			
18 ×16.5	6.0	9.5	10.5
18 ×21.5			

PACKING

BULK PACKING QUANTITY(pcs) / BOX

SIZE		BULK (QUANTITY)		
ØD	L	V-Bag	INNER BOX	MIDDLE BOX
3	5	500	12000	48000
4	5, 7	500	10000	40000
5	5, 7, 9, 11	500	7000	28000
6.3	5, 7, 9, 11	500	6000	24000
8	5	500	5000	20000
	9, 11.5	300	3600	14400
10	9, 12.5	200	2400	9600
	16	200	2000	8000
	20, 25	200	1600	6400
12.5	16	100	1200	4800
	20	100	1000	4000
	25	100	900	3600
16	16	100	800	3200
	20	50	600	2400
	25	50	500	2000
	31.5, 35.5	50	400	1600
18	16	50	600	2400
	20	50	500	2000
	20, 25(31.5)	50	400	1600
	35.5	50	300	1200

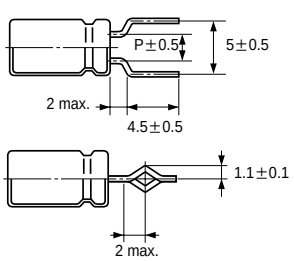
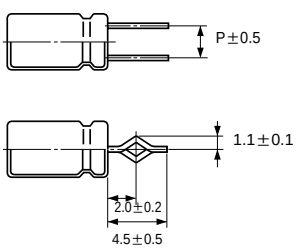
CUTTING PACKING QUANTITY(pcs) / BOX

SIZE		CUTTING (QUANTITY)		
ØD	L	V-Bag	INNER BOX	MIDDLE BOX
4	5, 7	500	9000	36000
5	5, 7, 9, 11	500	7000	28000
6.3	5, 7, 9, 11	500	6000	24000
8	5	500	5000	20000
	9, 11.5	300	3600	14400
10	9		1000	8000(16000)
	12.5		800	6400(12800)
	16		700	5600(11200)
	20		500	4000(8000)
	25		400	3200(6400)
12.5	16		400	3200(6400)
	20		300	2400(4800)
	25		250	2000(4000)
16	16		400	1200
	20		400	1200
	25, 31.5		400	1200
	35.5		400	1200
	40mm ↑		400	1200
18	16		300	900
	20		300	900
	25		300	900
	31.5, 35.5		300	900
	40mm ↑		300	900
22	35.5 ↓		200	600
	40mm ↑		200	600
25.4	35.5 ↓		100	300
	40mm ↑		100	300

∗( ) is for oversea

Lead Forming & Cutting

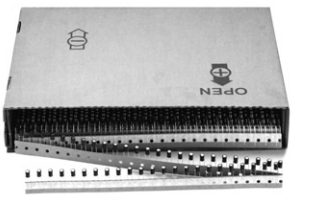
Unit : mm

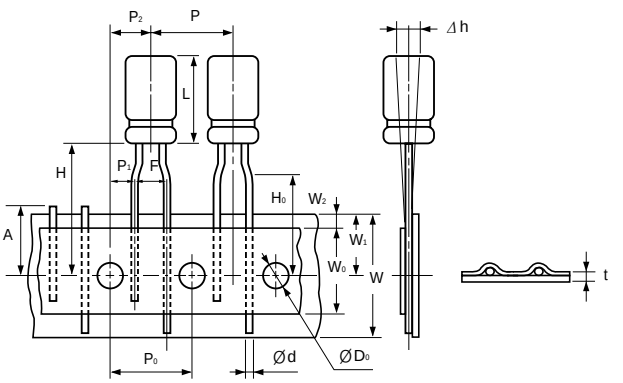
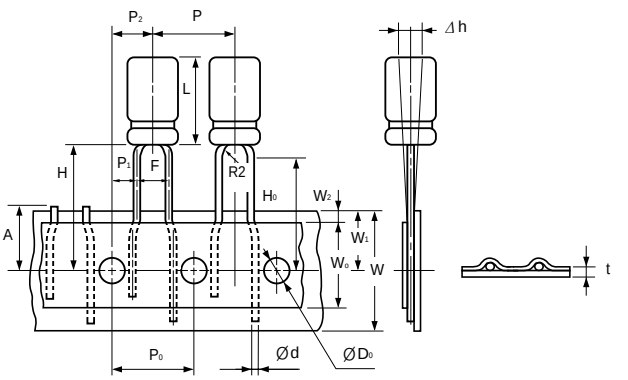
Configurations	Code	Case dia.	Shape	Configurations	Code	Case dia.	Shape
T - Type	TS	ØD≦8		S - Type	SS	ØD≧10	

TAPING

● Lead Taping Capacitors for Automatic Insertion

● Ammo



DRAWING Ⅰ	DRAWING Ⅱ
	

● DIMENSIONS

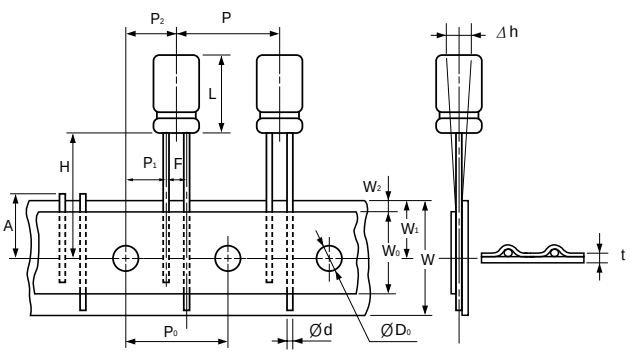
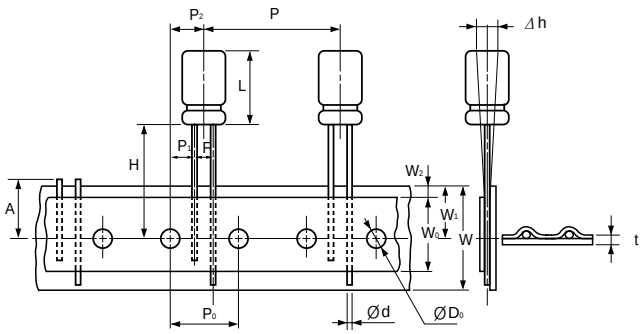
Unit : mm

Applicable Drawing No.			Ⅰ(Ⅱ)				Ⅲ			Ⅰ						
Description	Symbol	Tolerance	Ø3	Ø4	Ø5		Ø6.3		Ø8	Ø4	Ø5		Ø6.3		Ø8	
Case Height	L	*Note	5	5, 7	5	7~11	5	7~11	5	5, 7	5	7~11	5	7~11	5	9, 11.5
Lead Dia.	d	±0.05	0.4	0.45	0.45	0.5	0.45	0.5	0.45	0.45	0.45	0.5	0.45	0.5	0.45	0.6
Body Pitch	P	±1.0	12.7				12.7		12.7	12.7					12.7	12.7
Feeding Hole Pitch	P_0	±0.2	12.7				12.7		12.7	12.7					12.7	12.7
Feeding Hole Alignment	P_1	±0.7	5.1				5.1		5.1	3.85					3.85	3.85
Feeding Hole Alignment	P_2	±1.0	6.35				6.35		6.35	6.35					6.35	6.35
Lead Center Spacing	F	+0.6 −0.2	2.5				2.5		2.5	5.0					5.0	5.0
Body Inclination	Δh	±2.0	0				0		0	0					0	0
Tape Width	W	±0.5	18.0				18.0		18.0	18.0					18.0	18.0
Adhesive Tape Width	W_0	min.	9.5				9.5		9.5	9.5					9.5	12.5
Feeding Hole Alignment	W_1	±0.5	9.0				9.0		9.0	9.0					9.0	9.0
Adhesive Tape Margin	W_2	max.	2.0				2.0		2.0	2.0					2.0	2.0
Length from Seating Plane	H	±0.5	17.5 (18.0)				17.5		18.5	18.5 (5, 7mmL = 17.5)					17.5	20.0
Lead Clinch Height	H_0	±0.5	16.5 (17.0)				—		—	16.5					16.5	16.5
Feeding Hole Dia.	ØD_0	±0.2	4.0				4.0		4.0	4.0					4.0	4.0
Total Tape Thickness	t	±0.2	0.7				0.7		0.7	0.7					0.7	0.7
Cut Lead Height	A	max.	11.0				11.0		11.0	11.0					11.0	11.0
Taping Code / Ammo	⊕ leader		PB(PC)				PC		PE	PA					PA	PG

* Note : Refer to the drawing of each series for tolerance.

TAPING

●Lead Taping Capacitors for Automatic Insertion

DRAWING Ⅲ	DRAWING Ⅳ
	

●DIMENSIONS

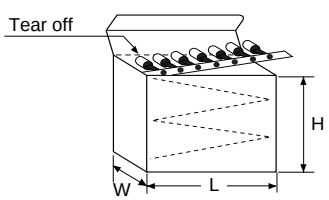
Unit : mm

Applicable Drawing No.			Ⅲ	Ⅲ	Ⅳ	Ⅳ	Ⅳ
Description	Symbol	Tolerance	Ø10	Ø12.5		Ø16	Ø18
Case Height	L	max.	27.0	27.0		37.5	37.5
Lead Dia.	d	±0.05	0.6	0.6		0.8	0.8
Body Pitch	P	±1.0	12.7	15.0	25.4	30.0	30.0
Feeding Hole Pitch	P_0	±0.2	12.7	15.0	12.7	15.0	15.0
Feeding Hole Alignment	P_1	±0.7	3.85	5.0	3.85	3.75	3.75
Feeding Hole Alignment	P_2	±1.0	6.35	7.5	6.35	7.5	7.5
Lead Center Spacing	F	+0.6 −0.2	5.0	5.0		7.5	7.5
Body Inclination	Δh	±2.0	0	0		0	0
Tape Width	W	±0.5	18.0	18.0		18.0	18.0
Adhesive Tape Width	W_0	min.	12.5	12.5		12.5	12.5
Feeding Hole Alignment	W_1	±0.5	9.0	9.0		9.0	9.0
Adhesive Tape Margin	W_2	max.	2.0	2.0		2.0	2.0
Length from Seating Plane	H	±0.5	18.5	18.5		18.5	18.5
Feeding Hole Dia.	ØD_0	±0.2	4.0	4.0		4.0	4.0
Total Tape Thickness	t	±0.2	0.7	0.7		0.7	0.7
Cut Lead Height	A	max.	11.0	11.0		11.0	11.0
Taping Code Ammo	⊕ leader		PA	PH	PL	PA	PA

●PACKAGING Q'ty(pcs.)/Box

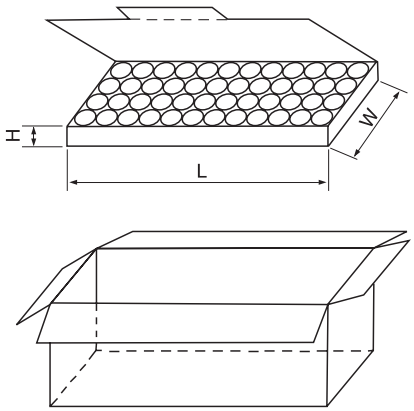
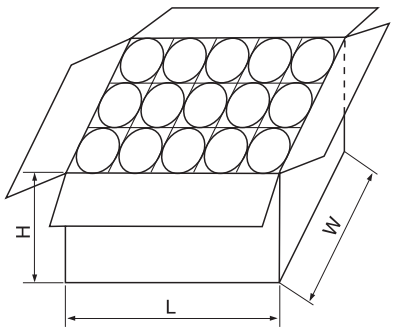
Unit : mm

Ammo



Size		Ammo			
ØD	Case Height	L	H	W	Q'ty
3	5	332	230	42	3000
4	5, 7				2500
5	5, 7				2000
	9, 11	332	230	49	
6.3	5, 7	332	230	42	1500
	9, 11	332	230	49	
8	5	332	230	42	1000
	9, 11.5	332	230	49	
10	9, 12.5, 16	332	190	51	500
	20, 25	332	190	59	
12.5	16, 20, 25	342	240	62	400
16	16, 20, 25	342	240	62	250
	31.5, 35.5	342	240	74	
18	16, 20, 25	342	240	62	200
	31.5, 35.5	342	240	74	

PACKING

FIGURE 1	FIGURE 2
SNAP-IN TYPE INNER, MIDDLE BOX	SCREW TYPE BOX
	

● SNAP-IN TYPE PACKAGING Quantity (pcs) / BOX (FIGURE 1)

SIZE		SNAP-IN(QUANTITY)	
ØD	L	INNER BOX	MIDDLE BOX
20, 22	20 ~ 40	200	600
	45 ~ 50		
25	20 ~ 40	150	450
	45 ~ 50		
	60		
30	20 ~ 40	100	300
	45 ~ 55		
	60 ~ 80		
35	20 ~ 40	50	200
	45 ~ 55		
	60 ~ 80		150
	100 ~ 120		
40	30 ~ 40	50	150
	50		
	60 ~ 80		
	90 ~ 110		

● SCREW TYPE PACKAGING Quantity (pcs) / BOX & BOX SIZE (FIGURE 2)

SIZE		SCREW
ØD	L	QUANTITY
35	50 ~ 100	60
	105 ~ 120	60
51	60 ~ 100	30
	105 ~ 125	30
	130 ~ 140	30
64	60 ~ 100	25
	105 ~ 125	25
	130 ~ 160	25
76	80 ~ 100	16
	105 ~ 125	16
	130 ~ 160	16
89	140 ~ 160	9