※Trimmed (Cut) or Formed Leads

※Please refer to page26 about the FPCAP product spec.

● Radial lead type
In order to identify correct part number for the processed lead product, cut/formed lead code must be added to bulk part number.

● If the bulk part number is up to 11th digit, processed lead coding shall be as follows:

12 13 14
1 □ □
code

● In case 12th digit is numeral, it shall be:

12 13 14
□ □ □
code

● In case 12th digit is alphabet, it shall be:

12 13 14 15 16
□ × × □ □
code

(mm)

Configurations	Cut / Formed lead code		Dimensions (mm)				Lead configurations
	Code	Case length	φD	F	L	ℓ	
Forming and cutting	BA	5mmL,7mmL	4	5	5.0	—	(Code BA, BB) 1.5MAX. (Code FA, FV) 2.5MAX.
			5			—	
	FA	Other length	6.3			—	
			8			—	
	BB	5mmL,7mmL	4	5	3.5	—	
			5			—	
	FV	Other length	6.3			—	
			8			—	
Cutting	CA	All length	3	1.0	5.0	—	※φ8×5 = F: 2.5 ※Please contact us for the φ16 to φ25×12.5L products.
			4	1.5		—	
			5	2.0		—	
			6.3	2.5		—	
			8	※3.5		—	
			10	5		—	
			12.5			—	
			16	7.5		—	
			18			—	
			20	10		—	
			22			—	
			25	12.5		—	
	CP	All length	Same as above.		4.5	—	
	CC	All length	Same as above.		4.0	—	
	CV	All length	Same as above.		3.5	—	
	CT	All length	Same as above.		3.2	—	
	CM	All length	Same as above.		3.0	—	
Snap-in	AE	5mmL,7mmL	4	5	4.5	1.1	(φ4, 5, 6.3, 8) (Code AE) 1.5 MAX. (Code AA) 2.5 MAX. (φ10, 12.5, 16, 18, 20, 22, 25)
			5				
	AA	Other length	6.3				
			8			1.3	
	AA	All length	10	5	4.5	1.3	
			12.5				
			16	7.5			
			18				
			20	10	5.0	1.8	
			22				
			25	12.5			

● Conductive polymer aluminum solid electrolytic capacitors : Cutting configurations only

※Lead diameter (φd) and lead pitch (P) are subject to capacitor specifications.

※End seal Configuration ※Please contact us about the FPCAP.

Configuration	※2		※1		
φ	3	5・6.3	4・8・10	12.5・16・18	20・22・25

Exception : φ5, φ6.3 case size of MA, MR, MF, MP, MT, MW, SA, SF, SP, SR, ST, SW, PW (7mmL), TT (7mmL) series : configration ※1
φ6.3×6mmL, φ6.3×9mmL, φ8×7mmL, φ8×9mmL, φ10×8mmL, φ10×10mmL size of LF※, LE※, LG※, LS※, LV※, LX※ series, MV, SV, PV series
9 will be put at 12th digit of type numbering system of CS, PZ series: configration ※2
※ Conductive polymer aluminum solid electrolytic capacitors

※Taped Leads for Automatic Insertion Systems

※Please refer to page26, 27 about the FPCAP product spec.

- Radial lead type (Applicable standard JIS C0806-2)
  In order to identify correct part number for the taped product, taping code must be added.
- If the bulk part number is up to 11th digit, taping code shall be as follows: 12 13 14 / 1 □ □ / code
- In case 12th digit is numeral, it shall be 12 13 14 / □ □ □ / code
- In case 12th digit is alphabet, it shall be 12 13 14 15 16 / □ × × □ □ / code

(mm)

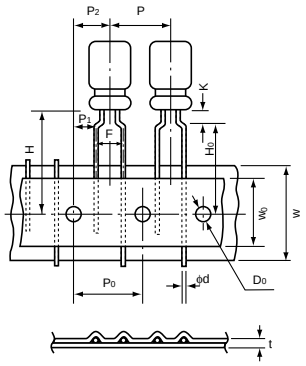
Specifications					Capacitor diameter (φ)	Taping code	
Packaging	Lead style	⊕ ⊖ Leader	F	P0		Code	Applicable size
Ammo-pack	Formed lead	———	See Table 1	12.7	3 to 8	TE TP TA	φ4 to 8 Case length (5mmL, 7mmL) (φ3×5, φ4×11) (φ5×9 to φ8×9, φ4×11 to φ8×20)
	Straight lead	——— ———	See Table 2	12.7	4 to 10	TP TD	φ4 to 8 Case length (5mmL), φ6.3×6 ※ φ4 to 6.3 Case length (7mmL), φ4 φ5×9 or more, φ6.3×9 or more, φ8×7 or more, φ10×8 to 25)
		———	See Table 2	15.0	12.5	TO	(φ12.5×12.5 to 25)
			See Table 2	15.0	16, 18	TN	(φ16×15 to 25, φ18×15 to 25)

Notes:
※ Conductive polymer aluminum solid electrolytic capacitors

Table 1

(mm)

(Formed lead type)

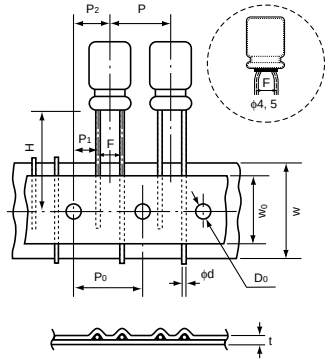


Item \ Case Size / Taping Code	Tolerance	Formed Lead Type Case dia (φ) × Length (L)				
		φ3×5	φ4×11	φ4×5 φ5×5 φ6.3×5 φ8×5 φ4×7 φ5×7 φ6.3×7 φ8×7	φ4×11 φ5×9 φ5×11 φ5×15 φ6.3×9 φ6.3×11 φ6.3×15	φ8×9 φ8×11.5 φ8×15 φ8×20
		TP	TP	TE	TA	TA
φd Lead-wire diameter	±0.05	0.40	0.45	0.45 (φ8×7 : 0.5)	0.5 (φ4×11 : 0.45)	0.6
P Pitch of component	±1.0	12.7	12.7	12.7	12.7	12.7
P0 Feed hole pitch	±0.2	12.7	12.7	12.7	12.7	12.7
P1 Hole center to lead	±0.5	5.1	5.1	3.85	3.85	3.85
P2 Feed hole center to component center	±1.0	6.35	6.35	6.35	6.35	6.35
F Lead-to-lead distance	+0.8 −0.2	2.5	2.5	5.0	5.0	5.0
K Clinch height	MAX.	1.5	2.5	1.5	2.5	4.0
H Height of component from tape center	+0.75 −0.5	18.5	18.5	17.5	18.5	20.0
H0 Lead-wire clinch height	±0.5	16.0 ※3	16.0	16.0	16.0	16.0
W Tape Width	±0.5	18.0	18.0	18.0	18.0	18.0
W0 Hold down tape width	MIN.	7.0	7.0	7.0	7.0	7.0
φD0 Feed hole diameter	±0.2	4.0	4.0	4.0	4.0	4.0
t Total tape thickness	±0.2	0.6	0.6	0.6	0.6	0.6

Table 2

(mm)

(Straight lead type)



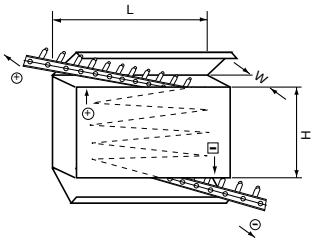
Item \ Case Size / Taping Code	Tolerance	Straight Lead Type Case dia (φ) × Length (L)								
		φ4×5 φ4×7	φ5	φ6.3	φ8×5	φ8×7	φ8	φ10	φ12.5	φ16 φ18
		TP	TP, TD	TP, TD	TP	TD	TD	TD	TO	TN
φd Lead-wire diameter	±0.05	0.45	0.45 0.5, 0.6	0.45 0.5, 0.6	0.45	0.5	0.6	0.6	0.6	0.8
P Pitch of component	±1.0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	15.0	30.0
P0 Feed hole pitch	±0.2	12.7	12.7	12.7	12.7	12.7	12.7	12.7	15.0	15.0
P1 Hole center to lead	±0.5	5.1 (※1 5.35)	5.1 (※1 5.35)	5.1	5.1	4.6	4.6	3.85	5.0	3.75
P2 Feed hole center to component center	±1.0	6.35	6.35	6.35	6.35	6.35	6.35	6.35	7.5	7.5
F Lead-to-lead distance	+0.8 −0.2	2.5 ※1	2.5 ※1	2.5	2.5	3.5	3.5	5.0	5.0	7.5 ※2
H Height of component from tape center	+0.75 −0.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
W Tape Width	±0.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
W0 Hold down tape width	MIN.	7.0	7.0	7.0	7.0	7.0	7.0	7.0	12.5	12.5
φD0 Feed hole diameter	±0.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
t Total tape thickness	±0.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

- Special taping specifications on H. F. and K. dimensions other than the above figures are available upon request.
- Conductive polymer aluminum solid electrolytic capacitors : Straigh lead type only
- Only the above mentioned dimensions are specified.

Notes:
※ 1 F = 2.0mm is also available, provided that capacitor case length is less than 9mm. Taping code to be TC.
※ 2 Tolerance on F for φ16 and φ18 units shall be ±0.8mm.
※ 3 Tolerance on Ho for φ3 units shall be 16.0 MIN.

Packaging

● Ammo-pack (Flat box type)



(mm)

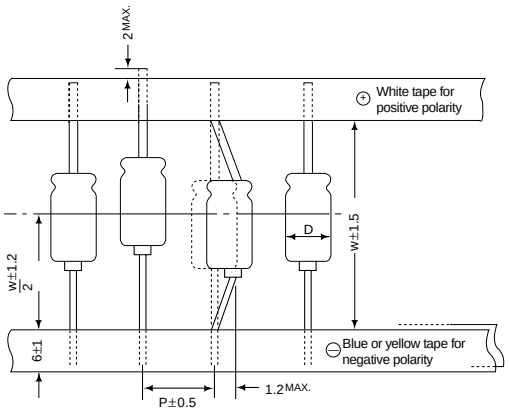
L	H	W	Case Size (φD × L)	Q'ty / Box
340	150	50	3 × 5	2,000
340	200	50	4 × 5, 4 × 7	2,000
340	250	50	5 × 5, 5 × 7	2,000
			8 × 5, 8 × 7, 8 × 8	1,000
340	300	50	6.3 × 5, 6.3 × 6, 6.3 × 7	2,000
340	260	54	4 × 11, 5 × 9, 5 × 11, 5 × 15	2,000
			8 × 9, 8 × 10, 8 × 11.5, 8 × 12, 8 × 15	1,000
340	200	54	10 × 8, 10 × 9, 10 × 10, 10 × 12.5, 10 × 13, 10 × 15, 10 × 16	500
340	300	54	6.3 × 9, 6.3 × 10.5, 6.3 × 11, 6.3 × 15	2,000
340	260	62	8 × 20	1,000
340	200	62	10 × 20	500
340	200	65	10 × 25	500
330	290	65	12.5 × 12.5, 12.5 × 15, 12.5 × 20	500
			12.5 × 25	
			18 × 15, 18 × 20, 18 × 25	250
320	230	65	16 × 15, 16 × 20, 16 × 25	250

● Axial lead type (Applicable standard JIS C0805)
The following code shall be put at 12th to 14th digit of the corresponding type number of capacitors.

(mm)

Taping Specifications		Case dia (φ)	Taping code	Q'ty / Reel (pcs.)
Dim. W (Tape distance)	Dim. P (Component Pitch)			
52.4	10	5	1LS	1,600
		6.3		1,300
		8		1,000
63.5	10	5	1LV	1,600
		6.3		1,300
		8		1,000
73.0	10	5	1LY	1,600
		6.3		1,300
		8		1,000
52.4	15	10	1LT	500
		13 (except 31.5L)		350
63.5	15	10	1LW	500
		13		350
73.0	15	10	1LZ	500
		13		350

Please contact us for complete information on the package dimensions for tapes axial lead capacitors.



FPCAP Lead forming (Radial lead type)

NS, R7, R5, L8, E5, S8, F8, NU, NE, S6, HT series

Components are packaged as per following packing unit.

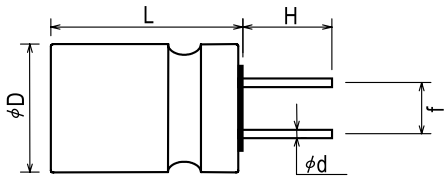
● Packing Quantity (Bulk)

Case Size φD × L (mm)	Long Lead		Cut Lead	
	Quantity vinyl bag (PCS)	Minimum quantity (PCS / Carton Box)	Quantity vinyl bag (PCS)	Minimum quantity (PCS / Carton Box)
φ4×5	200	8,000	200	8,000
φ5×8, φ5×10	200	3,200	200	4,000
φ6.3×5, φ6.3×6, φ6.3×7	200	4,000	200	4,000
φ6.3×8, φ6.3×10	200	3,200	200	4,000
φ8×6, φ8×8, φ8×9	200	3,200	200	4,000
φ8×11.5	100	2,000	200	2,400
φ10×12.5	100	1,600	100	2,000

Please note the order quantity must be in multiples of the minimum quantity.

● Cut Lead (Bulk) Dimensions

Lead Forming (Symbol:CG)
Nichicon P/N : R□□□□□□□ M□□1 CG
FPCAP P/N : FP- □□□RE□□□M- □□ CG



[Unit : mm]

Item \ φD×L	φ4×5	φ5×8, φ5×10	φ6.3×5, φ6.3×6, φ6.3×7, φ6.3×8, φ6.3×10	φ8×6, φ8×8, φ8×9, φ8×11.5	φ10×12.5
Lead Forming Symbol	**CG**	**CG**	**CG**	**CG**	**CG**
Lead Wire Diameter φd	0.45±0.05	0.5, 0.6±0.05	0.45, 0.5, 0.6±0.05	0.6±0.05	0.6±0.05
Lead Wire Length H	3.1±0.3	3.1±0.3	3.1±0.3	3.1±0.3	3.1±0.3
Lead Wire Interval f	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5	5.0±0.5

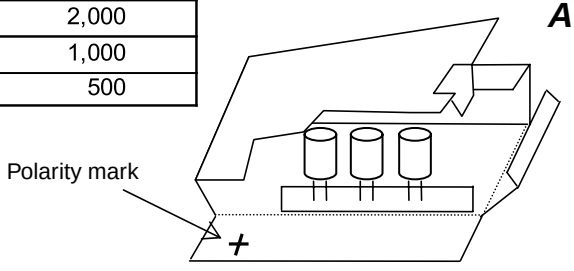
Note : Please inquire for FPCAP by Packing Unit as above.

FPCAP Taped Leads for Automatic Insertion Systems (Radial lead type)

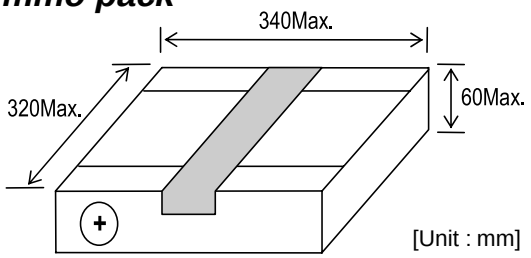
NS, R7, R5, L8, E5, S8, F8, NU, NE, S6, HT series

● Packing Quantity(Ammo Pack)

Size (dia)	Minimum quantity (pcs / Ammo Pack)
φ5	2,000
φ6.3	2,000
φ8	1,000
φ10	500



Ammo pack



[Unit : mm]

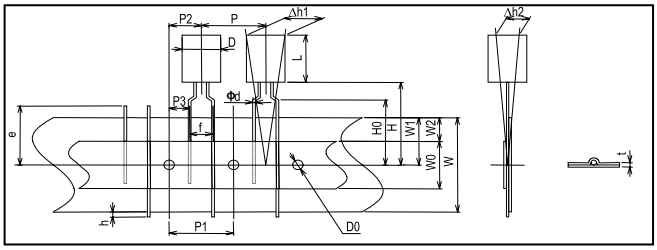
The lid of feeding side of the taping box shall be torn off at the perforation line.

● Taping Dimensions

Lead Forming (Symbol:Ex. PX) **Nichicon P/N Symbol : R□□□□□□□ M□□1 PX**
FPCAP P/N Symbol : FP-□□□RE□□□M-□□ P

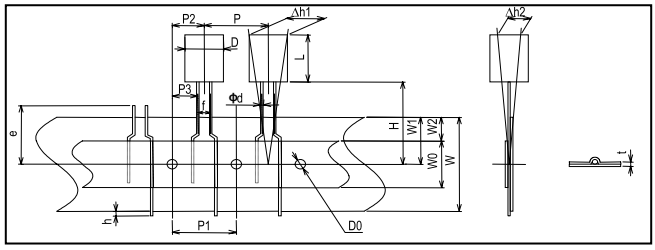
■ 2.5mm pitch taping
Taping Dimensions for φ5

Nichicon P/N Symbol : JT (φ5×8) , JX (φ5×10)
FPCAP P/N Symbol : JT (φ5×8) , J (φ5×10)



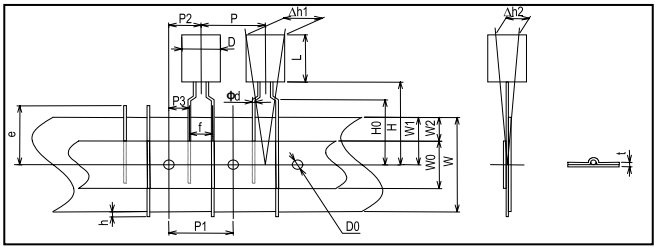
■ 2.5mm pitch taping
Taping Dimensions for φ6.3

Nichicon P/N Symbol : JT (φ6.3×5 to 8) , JX (φ6.3×10)
FPCAP P/N Symbol : JT (φ6.3×5 to 8) , J (φ6.3×10)



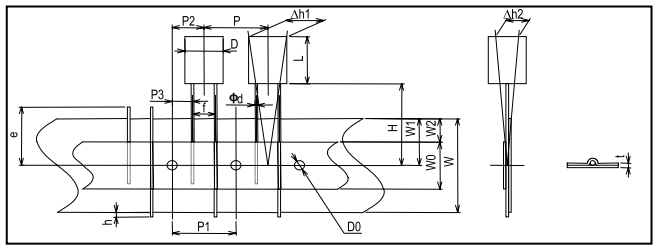
■ 5.0mm pitch taping
Taping Dimensions for φ5, φ6.3, φ8

Nichicon P/N Symbol : PX
FPCAP P/N Symbol : P



■ 3.5mm(φ8) or 5.0mm(φ10) pitch taping
Taping Dimensions for φ8, φ10

Nichicon P/N Symbol : KX (φ8) , PH (φ10)
FPCAP P/N Symbol : K (φ8) , PH (φ10)



● Specification Table

[Unit : mm]

Item \ φDxL	φ6.3×6, φ6.3×7	φ5×8, φ6.3×8	φ6.3×5 φ5×8	φ5×10, φ6.3×10	φ6.3×6, φ6.3×7	φ5×8, φ6.3×8	φ5×10, φ6.3×5, φ6.3×10	φ8×6 , φ8×8 , φ8×9 , φ8×11.5		φ10×12.5
Lead Forming Symbol (Nichicon P/N)	JT			JX	PX			PX	KX	PH
Lead Forming Symbol (FPCAP P/N)	JT			J	P			P	K	PH
Lead Wire Diameter φd	0.45	0.6	0.5	0.5	0.45	0.6	0.5	0.6	0.6	0.6
Tolerance	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
Lead Wire Interval f	2.5 +0.8/-0.2 (φ6.3: 2.5±0.5)				5.0 +0.8/-0.2			5.0 +0.8/-0.2	3.5 +0.8/-0.2	5.0 +0.8/-0.2
Pitch Between Components P	12.7±1.0				12.7±1.0			12.7±1.0	12.7±1.0	12.7±1.0
Feed Holes Position Gap P1	12.7±0.3				12.7±0.3			12.7±0.3	12.7±0.3	12.7±0.3
Feed Holes Position Gap P2	6.35±1.0				6.35±1.0			6.35±1.0	6.35±0.5	6.35±0.5
Lead Wire Clinch Height H0	—				16.0±0.5			16.0±0.5	—	—
Components Height H	18.5±0.5				17.5±0.5			20.0±0.75	20.0±0.5	18.5±0.5
Base Tape W	18.0 +1.0/-0.5				18.0 +1.0/-0.5			18.0 +1.0/-0.5	18.0 +1.0/-0.5	18.0 +1.0/-0.5
Feed Holes Position Gap W1	9.0±0.5				9.0±0.5			9.0±0.5	9.0±0.5	9.0±0.5
Feed Holes Diameter D0	4.0±0.2				4.0±0.2			4.0±0.2	4.0±0.2	4.0±0.2
Components Alignment Δh	2.0 max.				2.0 max.			2.0 max.	2.0 max.	2.0 max.
Tape Thickness t	0.7±0.2				0.7±0.2			0.7±0.2	0.7±0.2	0.7±0.2