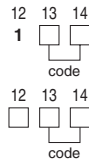


※Trimmed (Cut) or Formed Leads ※Please refer to page26 about the FPCAP product spec.

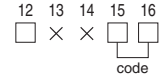
● Radial lead type

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:

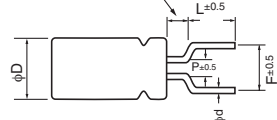
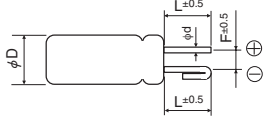
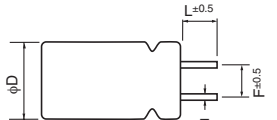
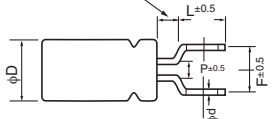
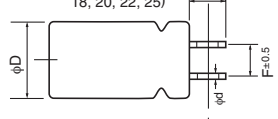


● In case 12th digit is alphabet, it shall be:



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



Configurations	Cut / Formed lead code		Dimensions (mm)				Lead configurations
	Code	Case length	φD	F	L	ℓ	
Forming and cutting	[B][A]	5mmL,7mmL	4	5	5.0	—	<div>(Code [B][A], [B][B]) 1.5MAX. (Code [F][A], [F][V]) 2.5MAX.</div> 
			5			—	
	[F][A]	Other length	6.3			—	
			8			—	
	[B][B]	5mmL,7mmL	4	5	3.5	—	
			5			—	
	[F][V]	Other length	6.3			—	
			8			—	
Forming and cutting	[S][Z]	All Series	10	5	3.2	—	 <div>※ Please contact your local Nichicon sales office for the following sizes. — 10mm Diameter parts with 9mm length or less, and 25mm length or larger — 12.5 to 18mm Diameter parts with 12.5mm length or less, and 46mm or larger ※ This operation is available on product made in Japan.</div>
			12.5			—	
			16	7.5		—	
			18			—	
Cutting	[C][A]	All length	3	1.0	5.0	—	 <div>※ φ 8 × 5 = F: 2.5 ※ Please contact us for the φ 16 to φ 25 × 12.5L products.</div>
			4	1.5		—	
			5	2.0		—	
			6.3	2.5		—	
			8	※ 3.5		—	
			10	5		—	
			12.5			—	
			16			—	
			18	7.5		—	
			20			—	
			22	10		—	
			25	12.5		—	
	[C][P]	All length	Same as above.		4.5	—	
	[C][C]	All length	Same as above.		4.0	—	
	[C][V]	All length	Same as above.		3.5	—	
	[C][T]	All length	Same as above.		3.2	—	
[C][M]	All length	Same as above.		3.0	—		
Snap-in	[A][E]	5mmL,7mmL	4	5	4.5	1.1	<div>(φ 4, 5, 6.3, 8) (Code [A][E]) 1.5 MAX. (Code [A][A]) 2.5 MAX.</div>  
			5			—	
	[A][A]	Other length	6.3			—	
			8			1.3	
	[A][A]	All length	10	5	4.5	1.3	
			12.5			—	
			16			—	
			18	7.5	4.5	—	
			20			—	
			22	10	5.0	1.8	
			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(mm)	3	5 · 6.3	4 · 8 · 10	12.5 · 16 · 18	20 · 22 · 25

Exception : φ5, φ6.3 case size of UMA, UMR, UMF, UMP, UMT, UMW, USA, USF, USP, USR, UST, USW, UPW (7mmL), UTT (7mmL) : configuration ※1  
 φ6.3 × 6mmL, φ6.3 × 9mmL, φ8 × 7mmL, φ8 × 9mmL, φ10 × 8mmL, φ10 × 10mmL size of PLF\*, PLE\*, PLG\*, PLS\*, PLV\*, PLX\*, UMV, USV, UPV  
 [9] will be put at 12th digit of type numbering system of UCS, UPZ : configuration ※2

\*Conductive polymer aluminum solid electrolytic capacitors

## ※Taped Leads for Automatic Insertion Systems

※ Please refer to page 26 about the FPCAP product spec.

## ● Radial lead type (Applicable standard JIS C0806-2)

(mm)

In order to identify correct part number for the taped product, taping code must be added.

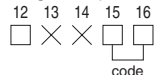
- If the bulk part number is up to 11th digit, taping code shall be as follows:



- In case 12th digit is numeral, it shall be



- In case 12th digit is alphabet, it shall be



Specifications				Capacitor diameter (φ)	Taping code	
Packaging	Lead style	F	P <sub>0</sub>		Code	Applicable size
Ammo-pack	Formed lead	See Table 1	12.7	3 to 8	$\begin{matrix} \text{TE} \\ \text{TP} \\ \text{TA} \end{matrix}$	φ 4 to 8 Case length (5mmL, 7mmL) φ 3×5, φ 4×11 φ 5×9 to φ 8×9, φ 4×11 to φ 8×20
					$\begin{matrix} \text{TP} \\ \text{TD} \end{matrix}$	φ 4 to 8 Case length (5mmL), φ 6.3×6※ φ 4 to 6.3 Case length (7mmL), φ 4 φ 5×9 or more, φ 6.3×9 or more, φ 8×7 or more, φ 10×8 to 25
	Straight lead	See Table 2	12.7	4 to 10	$\begin{matrix} \text{TO} \\ \text{TN} \end{matrix}$	φ 12.5×12.5 to 25 φ 16×15 to 25, φ 18×15 to 25

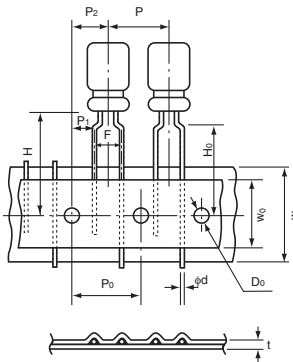
Notes:

※ Conductive polymer aluminum solid electrolytic capacitors

Table 1

(mm)

(Formed lead type)

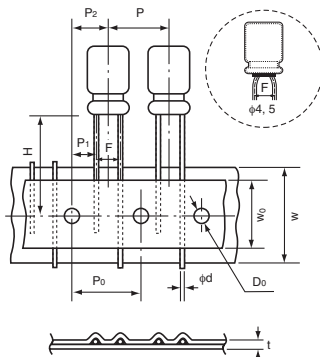


Case Size Taping Code		Tolerance	Formed Lead Type Case dia (φ) × Length (L)							
			φ 3 × 5	φ 4 × 11	φ 4 × 5	φ 5 × 5	φ 6.3 × 5	φ 8 × 5	φ 4 × 11	φ 6.3 × 9
			TP	TP	TE	TE	TE	TE	TA	TA
φ d	Lead-wire diameter	±0.05	0.40	0.45	0.45 (φ 8 × 7 : 0.5)				0.5 (φ 4 × 11 : 0.45)	0.6
P	Pitch of component	±1.0	12.7	12.7		12.7			12.7	12.7
P <sub>0</sub>	Feed hole pitch	±0.2	12.7	12.7		12.7			12.7	12.7
P <sub>1</sub>	Hole center to lead	±0.5	5.1	5.1		3.85			3.85	3.85
P <sub>2</sub>	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
H	Height of component from tape center	±0.75	18.5	18.5		17.5			18.5	20.0
H <sub>0</sub>	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
W <sub>0</sub>	Hold down tape width	MIN.	7.0	7.0		7.0			7.0	7.0
φ D <sub>0</sub>	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)



Case Size Taping Code		Tolerance	Straight Lead Type Case dia (φ) × Length (L)							
			φ 4 × 5 φ 4 × 7	φ 5	φ 6.3	φ 8 × 5	φ 8 × 7	φ 8	φ 10	φ 12.5
			TP	TP, TD	TP, TD	TP	TD	TD	TD	TO
φ d	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
P	Pitch of component	±1.0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	15.0
P <sub>0</sub>	Feed hole pitch	±0.2	12.7	12.7	12.7	12.7	12.7	12.7	12.7	15.0
P <sub>1</sub>	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
P <sub>2</sub>	Feed hole center to component center	±1.0	6.35	6.35	6.35	6.35	6.35	6.35	6.35	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
H	Height of component from tape center	±0.75	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
W <sub>0</sub>	Hold down tape width	MIN.	7.0	7.0	7.0	7.0	7.0	7.0	7.0	12.5
φ D <sub>0</sub>	Feed hole diameter	±0.2	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

Notes:

※ 1 F = 2.0mm is also available, provided Taping code to be  $\begin{matrix} \text{TE} \\ \text{TP} \\ \text{TA} \end{matrix}$ .

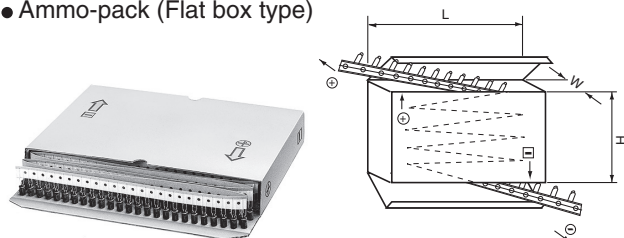
※ 2 Tolerance on F for φ 16 and φ 18 units shall be ±0.8mm.

※ 3 Tolerance on H<sub>0</sub> for φ 3 units shall be 16.0 MIN.

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

## Packaging

### ● Ammo-pack (Flat box type)



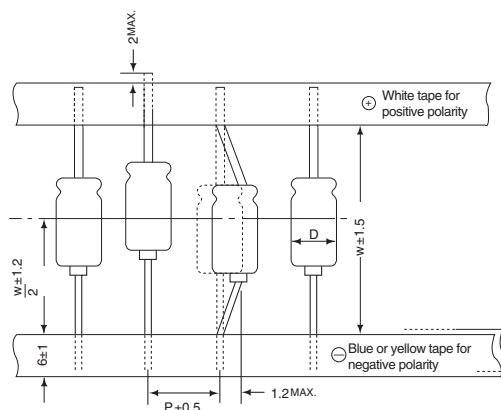
(mm)				
L	H	W	Case Size ( $\phi D \times L$ )	Q'ty / Box
340	150	50	3 × 5	2,000
340	200	50	4 × 5, 4 × 7	2,000
340	250	50	5 × 5, 5 × 7	2,000
			8 × 5, 8 × 7, 8 × 8	1,000
340	300	50	6.3 × 5, 6.3 × 6, 6.3 × 7	2,000
340	260	54	4 × 11, 5 × 9, 5 × 11, 5 × 15	2,000
			8 × 9, 8 × 10, 8 × 11.5, 8 × 12, 8 × 15	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	250
320	230	65	18 × 15, 18 × 20, 18 × 25	250
			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.

Taping Specifications		Case dia ( $\phi$ )	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)***RNS, RR7, RR5, RL8, RE5, RS8, RF8, RNU, RNE, RNL, RS6, RHT***Components are packaged as per following packing unit.**

## ● Packing Quantity (Bulk)

Case Size $\phi D \times L$ (mm)	Long Lead		Cut Lead	
	Quantity vinyl bag (PCS)	Minimum quantity (PCS / Carton Box)	Quantity vinyl bag (PCS)	Minimum quantity (PCS / Carton Box)
$\phi 4 \times 5$	200	8,000	200	8,000
$\phi 5 \times 8, \phi 5 \times 10$	200	3,200	200	4,000
$\phi 6.3 \times 5, \phi 6.3 \times 6, \phi 6.3 \times 7$	200	4,000	200	4,000
$\phi 6.3 \times 8, \phi 6.3 \times 10$	200	3,200	200	4,000
$\phi 8 \times 6, \phi 8 \times 8, \phi 8 \times 9$	200	3,200	200	4,000
$\phi 8 \times 11.5$	100	2,000	200	2,400
$\phi 8 \times 16$	100	1,600	100	2,000
$\phi 8 \times 20$	100	1,200	100	1,600
$\phi 10 \times 12.5$	100	1,600	100	2,000
$\phi 10 \times 20$	100	800	100	1,200

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

## ● Bulk Long Lead Part Number

Nichicon P/N : R□□□□□□ M□□□ □□

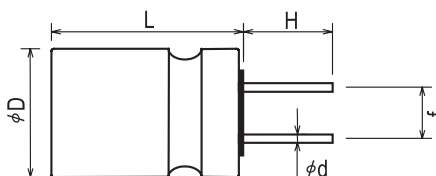
FPCAP P/N : FP- □□□RE□□□M- □□ R

## ● Cut Lead (Bulk) Dimensions

Lead Forming (Symbol:CG)

Nichicon P/N : R□□□□□□□ M□□□ CG

FPCAP P/N : FP- □□□RE□□□M- □□ CG



[Unit : mm]

Item	$\phi D \times L$	$\phi 4 \times 5$	$\phi 5 \times 8, \phi 5 \times 10$	$\phi 6.3 \times 5, \phi 6.3 \times 6, \phi 6.3 \times 7, \phi 6.3 \times 8, \phi 6.3 \times 10$	$\phi 8 \times 6, \phi 8 \times 8, \phi 8 \times 9, \phi 8 \times 11.5, \phi 8 \times 16, \phi 8 \times 20$	$\phi 10 \times 12.5, \phi 10 \times 20$
Lead Forming Symbol		CG	CG	CG	CG	CG
Lead Wire Diameter $\phi d$		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

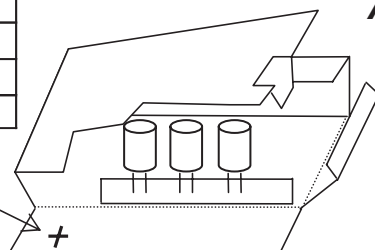
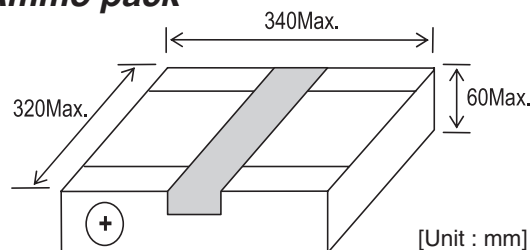
Note : Please inquire for FPCAP by Packing Unit as above.

**FPCAP Taped Leads for Automatic Insertion Systems (Radial lead type)***RNS, RR7, RR5, RL8, RE5, RS8, RF8, RNU, RNE, RNL, RS6, RHT*

## ● Packing Quantity(Ammo Pack)

Size (dia)	Minimum quantity (pcs / Ammo Pack)
$\phi 5$	2,000
$\phi 6.3$	2,000
$\phi 8$	1,000
$\phi 10$	500

Polarity mark

**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□□□ PX

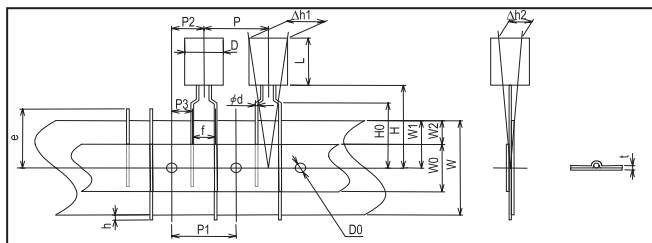
FPCAP P/N Symbol : FP-□□□RE□□□M-□□ P

### ■ 2.5mm pitch taping

Taping Dimensions for  $\phi 5$

Nichicon P/N Symbol : JT ( $\phi 5 \times 8$ ) , JX ( $\phi 5 \times 10$ )

FPCAP P/N Symbol : JT ( $\phi 5 \times 8$ ) , J ( $\phi 5 \times 10$ )

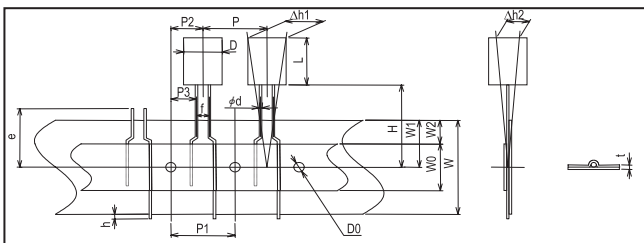


### ■ 2.5mm pitch taping

Taping Dimensions for  $\phi 6.3$

Nichicon P/N Symbol : JT ( $\phi 6.3 \times 5$  to 8) , JX ( $\phi 6.3 \times 10$ )

FPCAP P/N Symbol : JT ( $\phi 6.3 \times 5$  to 8) , J ( $\phi 6.3 \times 10$ )

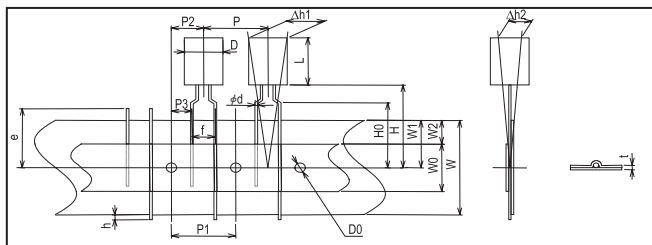


### ■ 5.0mm pitch taping

Taping Dimensions for  $\phi 5$ ,  $\phi 6.3$ ,  $\phi 8$

Nichicon P/N Symbol : PX

FPCAP P/N Symbol : P

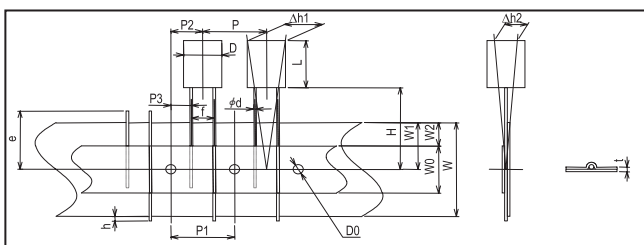


### ■ 2.0mm( $\phi 5$ ) or 3.5mm( $\phi 8$ ) or 5.0mm( $\phi 10$ ) pitch taping

Taping Dimensions for  $\phi 5$ ,  $\phi 8$ ,  $\phi 10$

Nichicon P/N Symbol : TX ( $\phi 5$ ) , KX ( $\phi 8$ ) , PH ( $\phi 10$ )

FPCAP P/N Symbol : T ( $\phi 5$ ) , K ( $\phi 8$ ) , PH ( $\phi 10$ )



## ● Specification Table

[Unit : mm]

Item	$\phi D \times L$	$\phi 6.3 \times 6$ , $\phi 6.3 \times 7$	$\phi 5 \times 8$ , $\phi 6.3 \times 8$	$\phi 6.3 \times 5$ , $\phi 5 \times 8$	$\phi 5 \times 10$ , $\phi 6.3 \times 10$	$\phi 6.3 \times 6$ , $\phi 6.3 \times 7$	$\phi 5 \times 8$ , $\phi 6.3 \times 8$	$\phi 5 \times 10$ , $\phi 6.3 \times 5$ , $\phi 6.3 \times 10$	$\phi 8 \times 6$ , $\phi 8 \times 8$ , $\phi 8 \times 9$ , $\phi 8 \times 11.5$ , $\phi 8 \times 16$ , $\phi 8 \times 20$	$\phi 5 \times 8$	$\phi 8 \times 6$ , $\phi 8 \times 8$ , $\phi 8 \times 9$ , $\phi 8 \times 11.5$ , $\phi 8 \times 16$ , $\phi 8 \times 20$	$\phi 10 \times 12.5$ , $\phi 10 \times 20$
Lead Forming Symbol (Nichicon P/N)		<u>JT</u>			<u>JX</u>	<u>PX</u>			<u>PX</u>	<u>TX</u>	<u>KX</u>	<u>PH</u>
Lead Forming Symbol (FPCAP P/N)		<u>JT</u>			<u>J</u>	<u>P</u>			<u>P</u>	<u>T</u>	<u>K</u>	<u>PH</u>
Lead Wire Diameter $\phi d$		0.45	0.6	0.5	0.5	0.45	0.6	0.5	0.6	0.6	0.6	0.6
Tolerance		$\pm 0.05$	$\pm 0.05$	$\pm 0.05$	$\pm 0.05$	$\pm 0.05$	$\pm 0.05$	$\pm 0.05$	$\pm 0.05$	$\pm 0.05$	$\pm 0.05$	$\pm 0.05$
Lead Wire Interval $f$		2.5 +0.8/-0.2 ( $\phi 6.3$ : 2.5 $\pm 0.5$ )				5.0 +0.8/-0.2			5.0 +0.8/-0.2	2.0 +0.8/-0.2	3.5 +0.8/-0.2	5.0 +0.8/-0.2
Pitch Between Components $P$		12.7 $\pm 1.0$				12.7 $\pm 1.0$			12.7 $\pm 1.0$	12.7 $\pm 1.0$	12.7 $\pm 1.0$	12.7 $\pm 1.0$
Feed Holes Position Gap $P1$		12.7 $\pm 0.3$				12.7 $\pm 0.3$			12.7 $\pm 0.3$	12.7 $\pm 0.3$	12.7 $\pm 0.3$	12.7 $\pm 0.3$
Feed Holes Position Gap $P2$		6.35 $\pm 1.0$				6.35 $\pm 1.0$			6.35 $\pm 1.0$	6.35 $\pm 0.5$	6.35 $\pm 0.5$	6.35 $\pm 0.5$
Lead Wire Clinch Height $H0$		—				16.0 $\pm 0.5$			16.0 $\pm 0.5$	—	—	—
Components Height $H$		18.5 $\pm 0.5$				17.5 $\pm 0.5$			20.0 $\pm 0.75$	18.5 $\pm 0.5$	20.0 $\pm 0.5$	18.5 $\pm 0.5$
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	18.0 +1.0/-0.5
Feed Holes Position Gap $W1$		9.0 $\pm 0.5$				9.0 $\pm 0.5$			9.0 $\pm 0.5$	9.0 $\pm 0.5$	9.0 $\pm 0.5$	9.0 $\pm 0.5$
Feed Holes Diameter $D0$		4.0 $\pm 0.2$				4.0 $\pm 0.2$			4.0 $\pm 0.2$	4.0 $\pm 0.2$	4.0 $\pm 0.2$	4.0 $\pm 0.2$
Components Alignment $\Delta h$		2.0 max.				2.0 max.			2.0 max.	2.0 max.	2.0 max.	2.0 max.
Tape Thickness $t$		0.6 $\pm 0.2$				0.6 $\pm 0.2$			0.6 $\pm 0.2$	0.6 $\pm 0.2$	0.6 $\pm 0.2$	0.6 $\pm 0.2$