

Taping Specification for Automatic insertion

APPLICATIONS

- These specifications include taped single-ended electrolytic capacitors with the body diameters from 4.0 to 16mm.
- Suitable to be used in automatic lead preparation and insertion machines.

DESCRIPTION

- Body tape requirements are shown from Fig.1 to Fig.6
- Polarity of capacitors shall be oriented in one direction.
- Leader tapes shall not be provided before the first and after the last capacitor on tape.
- Up to 3 capacitor consecutively missing on tape is permitted but a designed quantity of capacitors shall be packed in each case.
- Removal faulty capacitors from the tape shall be by pulling out or by cutting off leads. Cut off leads remaining on tape shall not protrude more than 2.0 mm from tape edge.

DIAGRAM OF TAPING DIMENSIONS

(Unit=mm)

Fig.1(φ 4-φ 8)

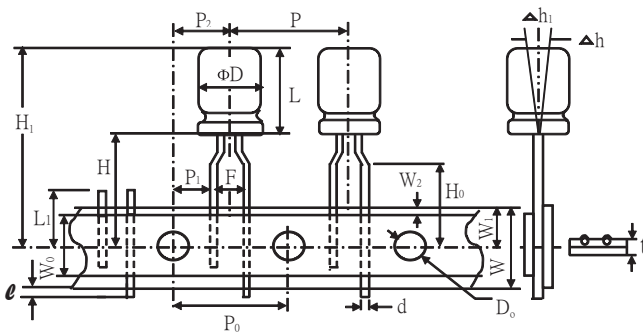


Fig.2(φ 4-φ 5)

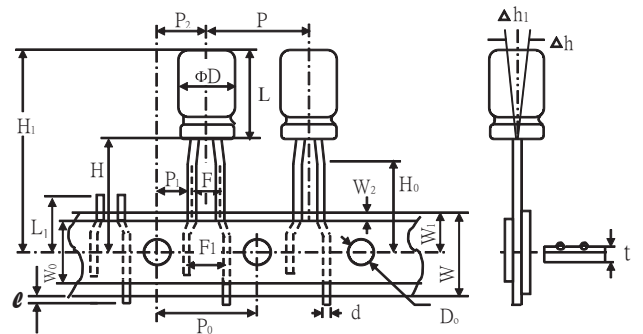


Fig.3(φ 5-φ 8)

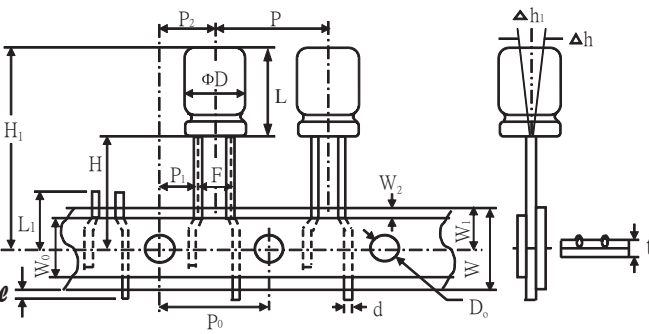


Fig.4(φ 10)

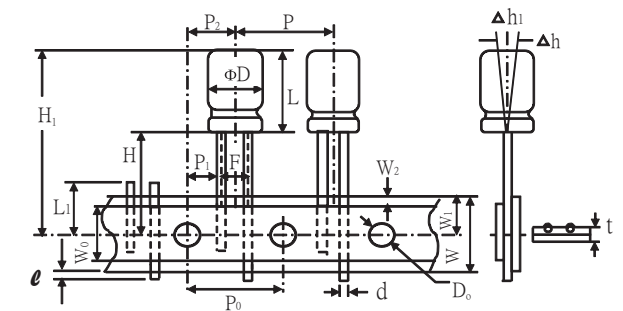


Fig.5(φ 12~φ 13)

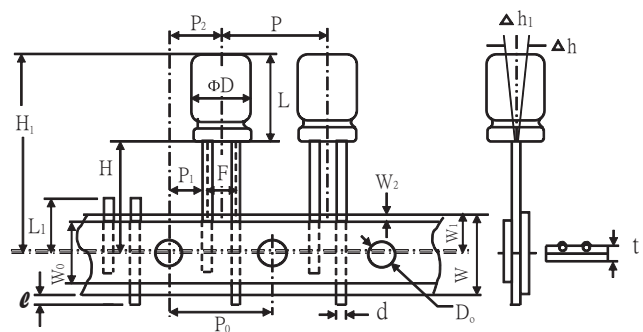
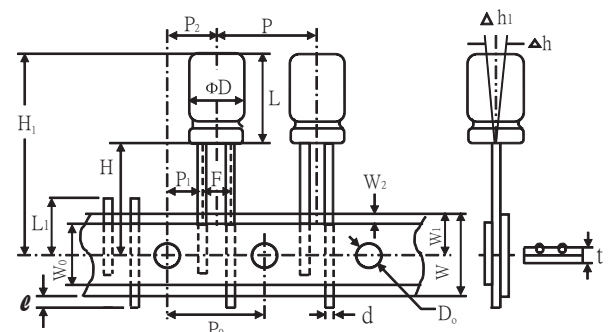


Fig.6(φ 16)



For Automatic Insertion Taping Capacitors

TAPING DIMENSIONS (mm)

Items	Symbol	Case Size									Tolerance	Remark	
		4x5	5x5	4x7	5x7	5x11	6.3x11	8x12	10x13	10x16			10x20
			6.3x5		6.3x7								
Lead Wire Diameter	d	0.45	0.45	0.45	0.5	0.5			0.6			±0.05	
Body Height	L	6		8		12		13	14	18	22	max	
Intervals of Bodies	P	12.7									±1.0		
Intervals of Punched Holes	P ₀	12.7									±0.2		
Distance between Holes and Lead Wire	P ₁	3.85									±0.7	Fig.1 Fig.4	
		5.35	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10		Fig.2	
5.35	5.35		5.35		5.35	Fig.3							
Distance between Holes and Body Center	P ₂	6.35									±1.0		
Distance between Lead and Lead	F	5.00									+0.8	Fig.1 Fig.4	
		2.5	2.5	2.5	2.5	2.5						Fig.2	
		1.5	2.0		2.5	2.0	2.5	3.5				Fig.3	
		2.5			3.5								
Distance between Lead and Lead	F1	5.0										Fig.2 Fig.3	
Base Tape Width	W	18.0									±0.5		
Adhesive Tape Width	W ₀	11.0	11.0	11.0	11.0	11.0			12.0			min	
			12.0			12.0							
Deviation between Holes and Base Tape	W ₁	9.0									±0.5		
Deviation between Adhesive and Base Tape	W ₂	1.5									max		
Deviation between Body Bottom and Tape Center	H	17.5				18.5					±0.75	Fig.1 Fig.4	
		17.5	18.5	17.5	18.5	18.5						Fig.2 Fig.3	
Lead Wire Clinched Height	H ₀	15.0				16.0					±0.5		
		15.0	16.0	15.0	16.0								
Distance between Body Top and Tape Center	H ₁	27.5			32.5			33.0	36.0	41.0	max		
Punched Hole Diameter	D ₀	4.0									±0.3		
Lead Wire Protrusion	l	1.0									max		
Length of not Good Lead Slit	L ₁	11.0									max		
Base and Adhesive Tape Thickness	t	0.7									±0.2		
Deviation of Body Alignment	Δh	0									±2.0		
Deviation of Body Alignment	Δh ₁	0									±2.0		

TAPING DIMENSIONS (mm)

Items	Symbol	Case Size							Tolerance	Remark
		12.5x21	13x21	13x25	13x30	16x26	16x32	16x36		
Lead Wire Diameter	d	0.6			0.8				±0.05	
Body Height	L	23.0	23.0	27.0	32.0	28.0	34.0	38.0	max	
Intervals of Bodies	P	15.0				30.0			±1.0	Fig.5 Fig.6
Intervals of punched Holes	P ₀	15.0							±0.2	
Distance between Holes and Lead Wire	P ₁	5.0				3.75			±0.7	
Distance between Holes and Bodies	P ₂	7.5							±1.0	
Distance between Lead and Lead	F	5.0				7.5			+0.8 -0.2	
Base Tape Width	W	18.0				15.0			±0.5	
Adhesive Tape Width	W ₀	12.0				15.0			min	
Deviation between Holes and Base Tape	W ₁	9.0							±0.5	
Deviation between Adhesive and Base Tape	W ₂	1.5							max	
Deviation between Body Bottom and Tape Center	H	18.5							±0.75	Fig.5 Fig.6
Distance between Body Top and Tape Center	H ₁	40.5	40.5	45.5	50.5	46.5	53.5	56.5	max	
Punched Hole Diameter	D ₀	4.0							±0.3	
Lead Wire Protrusion	l	1.0							max	
Length of not Good Lead Slit	L ₁	11.0							max	
Base and Adhesive Tape Thickness	t	0.7							±0.2	
Deviation of Body Alignment	Δh	0							±2.0	
Deviation of Body Alignment	Δh ₁	0							±2.0	