

Part II

Carrier Tape Outline Drawing

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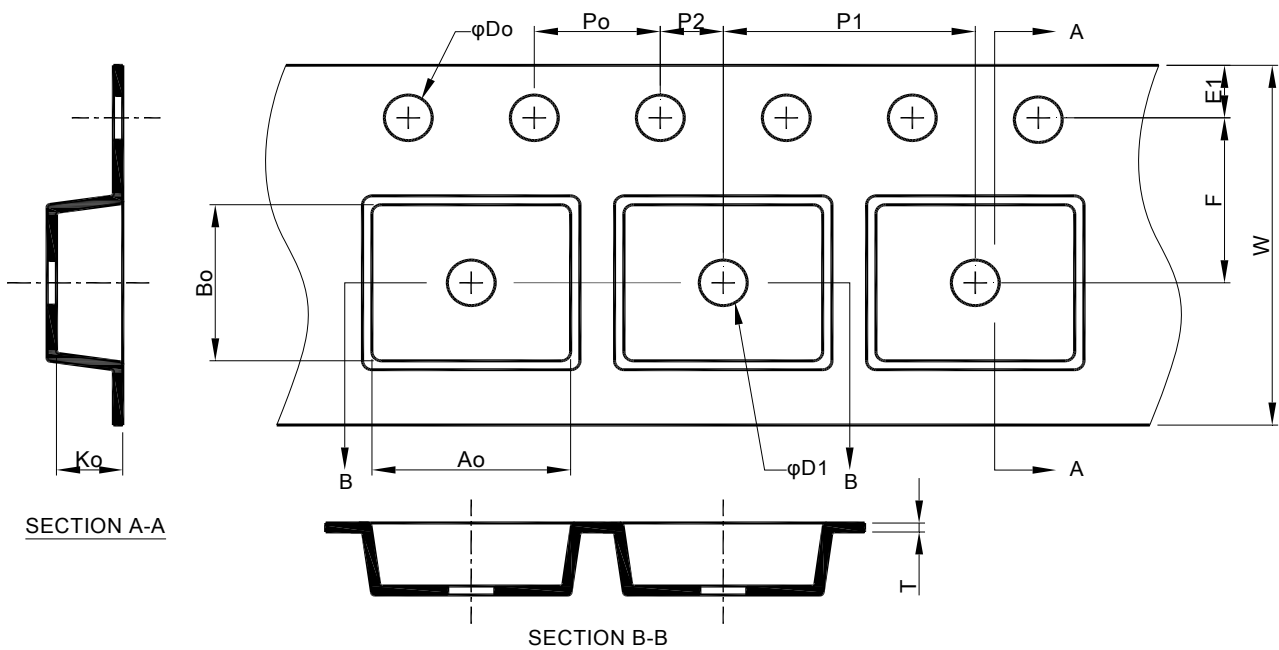
Part II - Carrier Tape Outline Drawing

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Part II Carrier Tape Outline Drawing

(unit: mm)

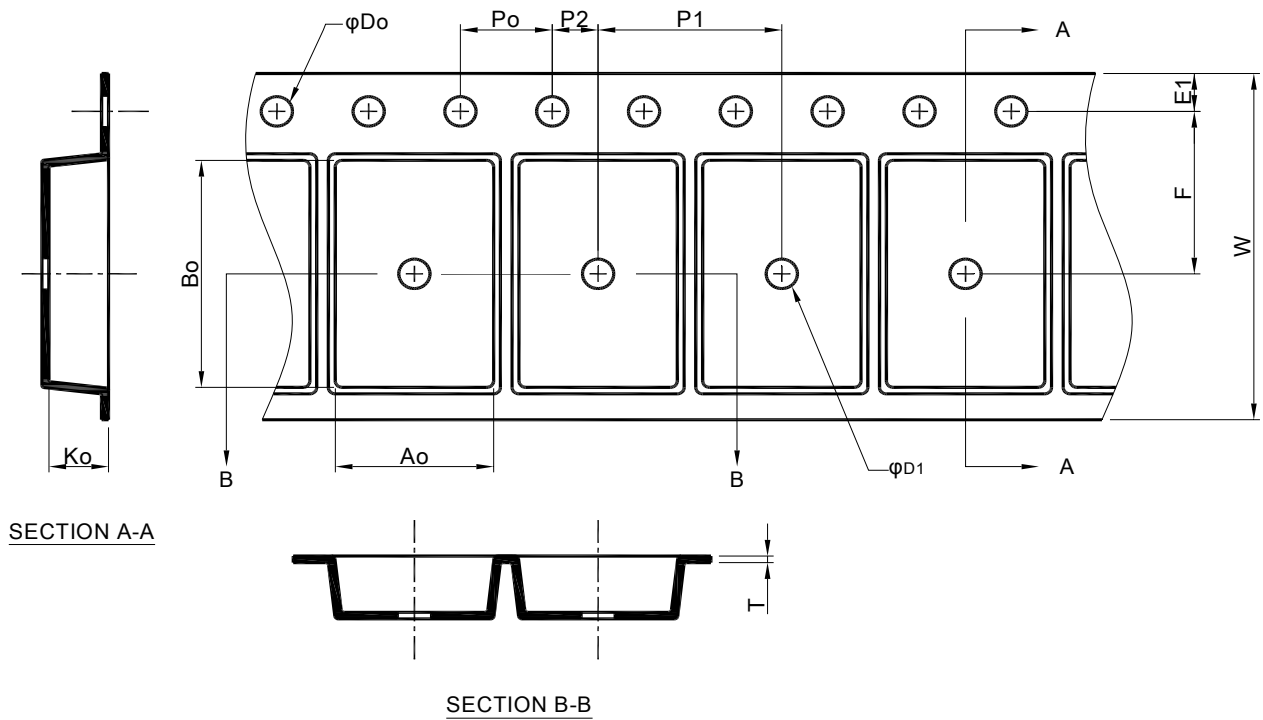
- SOP-8 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	6.30 ± 0.20	5.20 ± 0.20	2.10 ± 0.20	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	8.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	5.50 ± 0.05	12.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

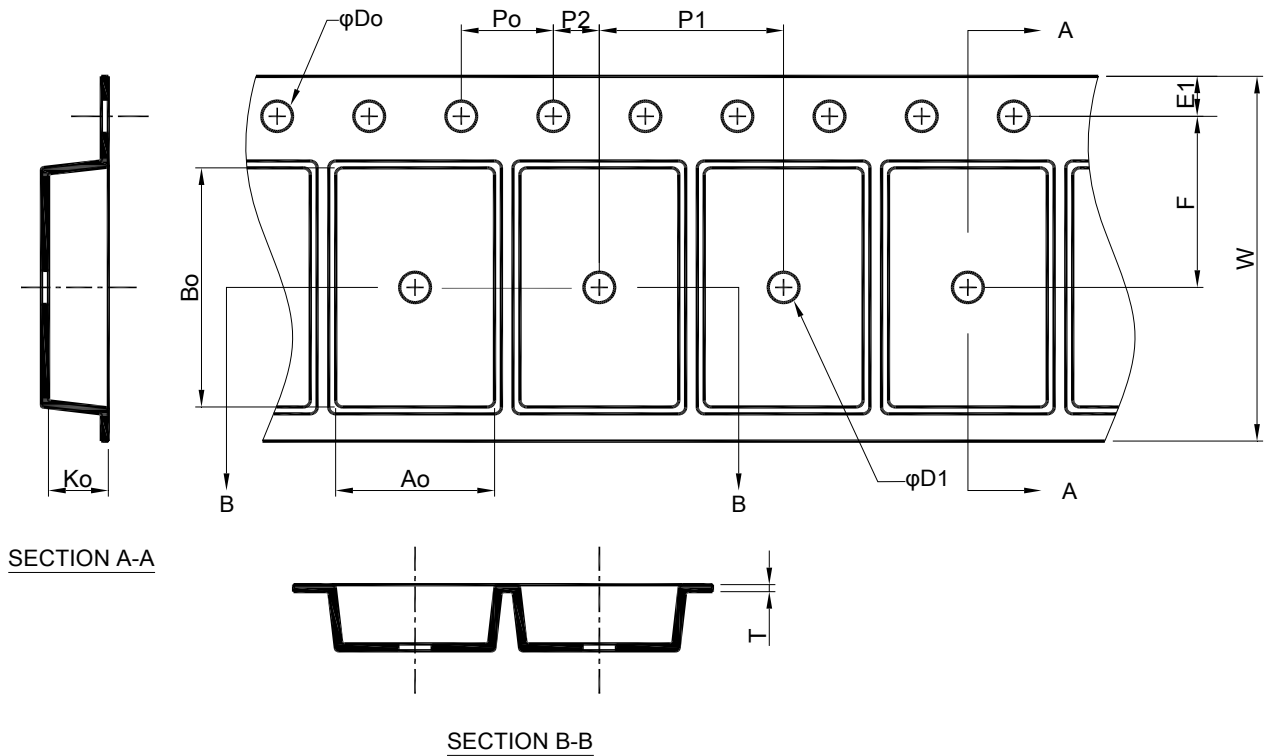
● SOP-14 CARRIER TAPE OUTLINE DRAWING



SYMBOL	Ao	Bo	Ko	T	Do	D1
SPEC.	6.5 ±0.2	9.2 ±0.35	2.1 ±0.2	0.30 ±0.05	1.5 ^{+0.1} _{-0.0}	1.50 min.
SYMBOL	Po	P1	P2	E1	F	W
SPEC.	4.0 ±0.1	8.0 ±0.1	2.0 ±0.1	1.75 ±0.1	7.5 ±0.1	16.0 ±0.3

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. Ao and Bo measured on a plane 0.3mm above the bottom of the pocket
 5. Ko measured from a plane on the inside bottom of the pocket to the top surface of the carrier

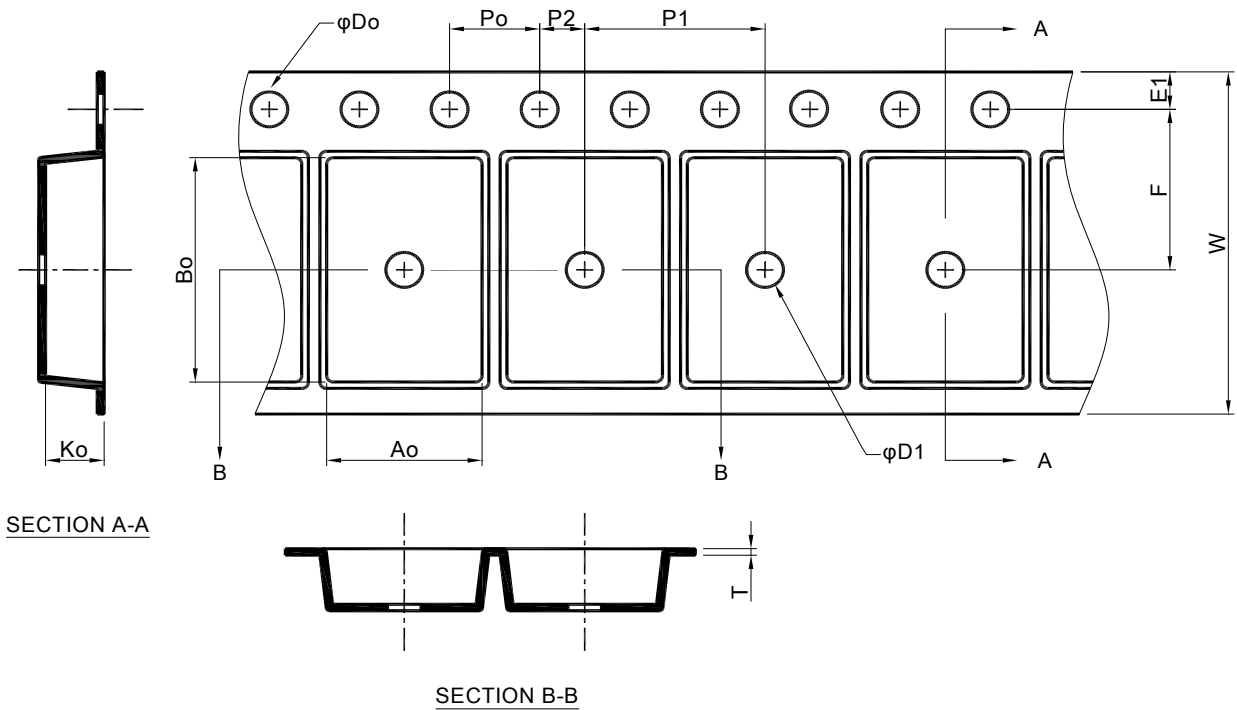
● SOP-16 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	6.5 ± 0.2	10.3 ± 0.2	2.1 ± 0.2	0.30 ± 0.05	$1.5^{+0.1}_{-0.0}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.0 ± 0.1	8.0 ± 0.1	2.0 ± 0.1	1.75 ± 0.1	7.5 ± 0.1	16.0 ± 0.3

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

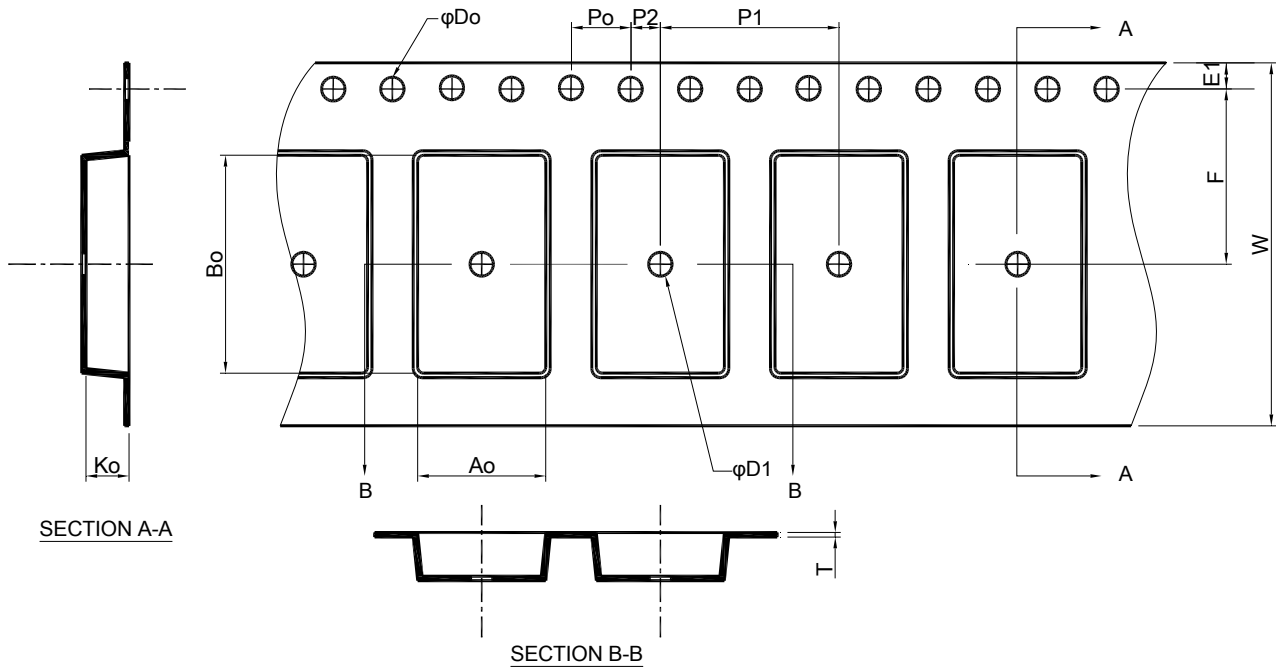
● SOP-16W CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	10.9 ± 0.2	10.7 ± 0.2	3.2 ± 0.2	0.30 ± 0.05	$1.5^{+0.1}_{-0.0}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.0 ± 0.1	12.0 ± 0.1	2.0 ± 0.1	1.75 ± 0.1	7.5 ± 0.1	16.0 ± 0.3

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

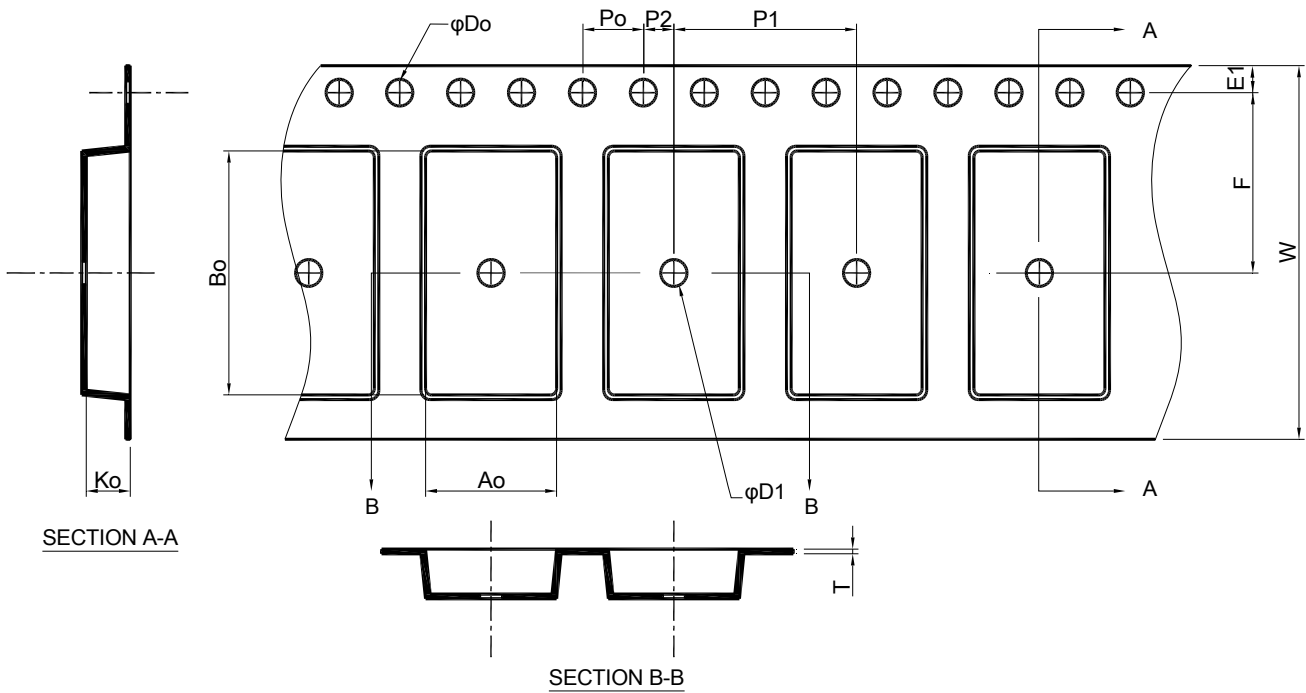
● SOP-20 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	10.90 ± 0.20	13.30 ± 0.20	3.10 ± 0.20	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	12.00 ± 0.10	2.00 ± 0.10	1.75 ± 0.10	11.50 ± 0.10	24.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

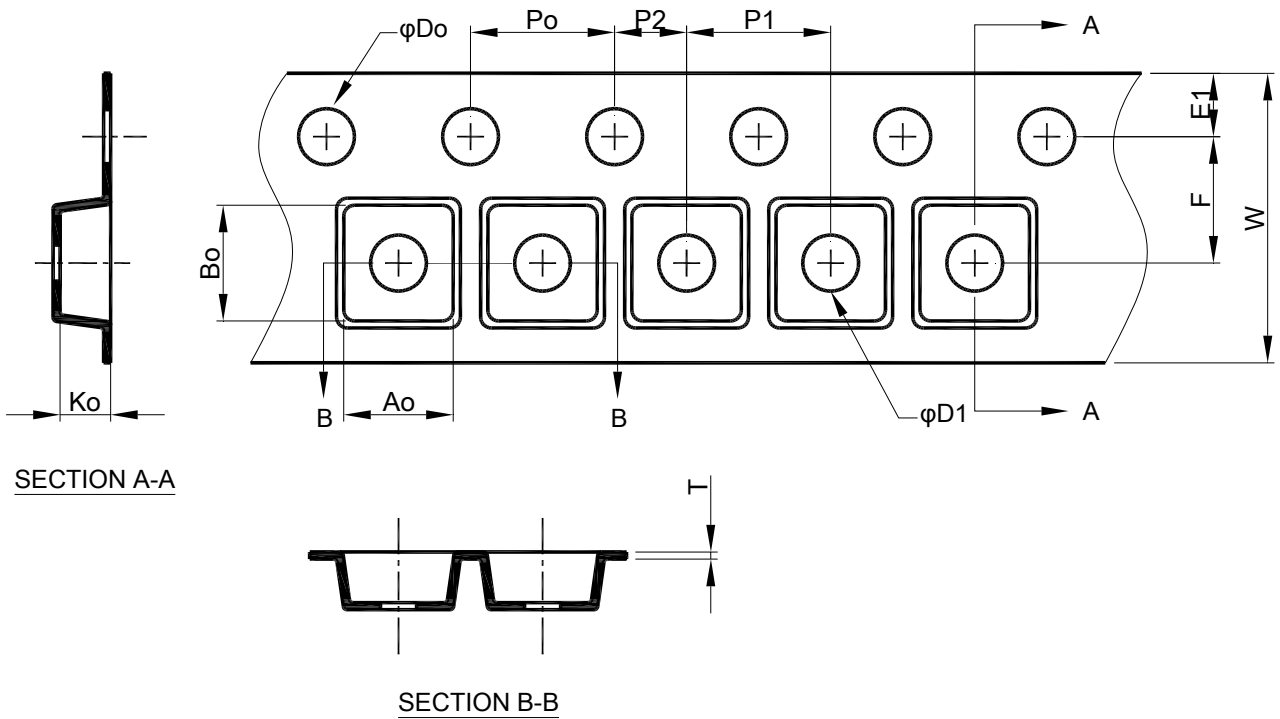
● SOP-24 CARRIER TAPE OUTLINE DRAWIN



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	10.90 ± 0.20	15.90 ± 0.20	3.10 ± 0.20	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	12.00 ± 0.10	2.00 ± 0.10	1.75 ± 0.10	11.50 ± 0.10	24.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

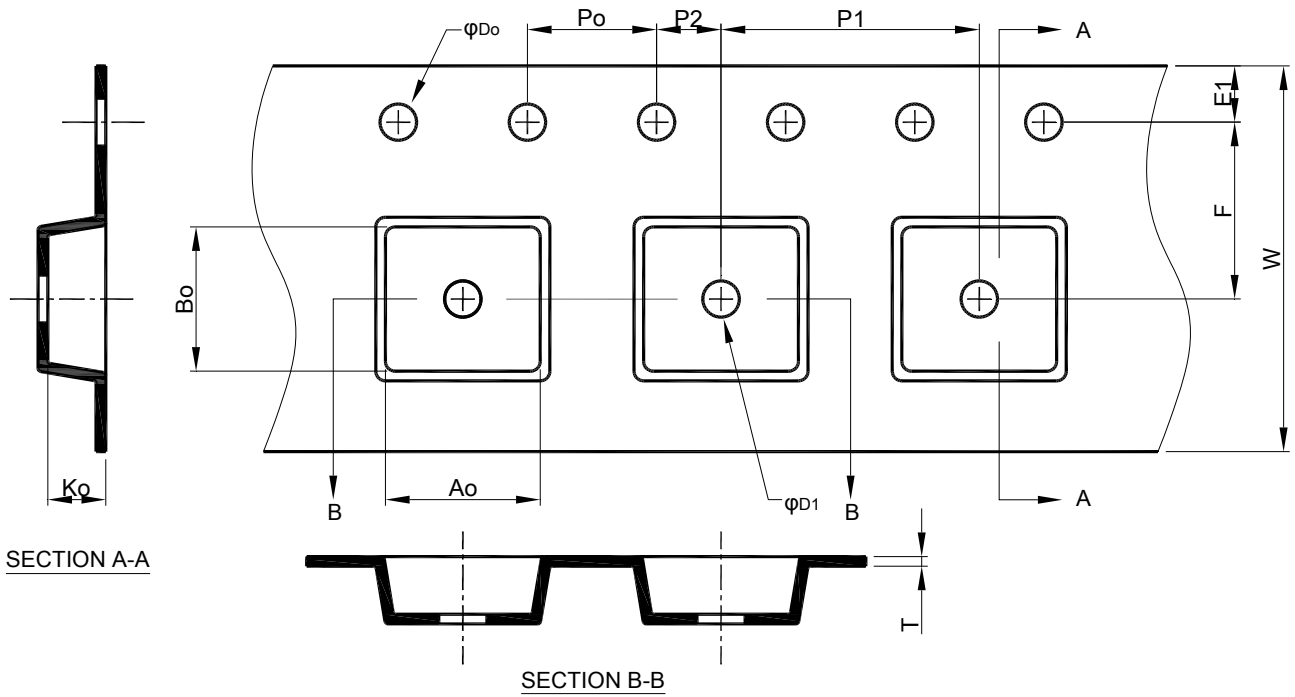
● SOT-23/SOT-23-5/SOT-23-6 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	3.15 ± 0.20	3.20 ± 0.20	1.45 ± 0.25	0.22 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.00 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

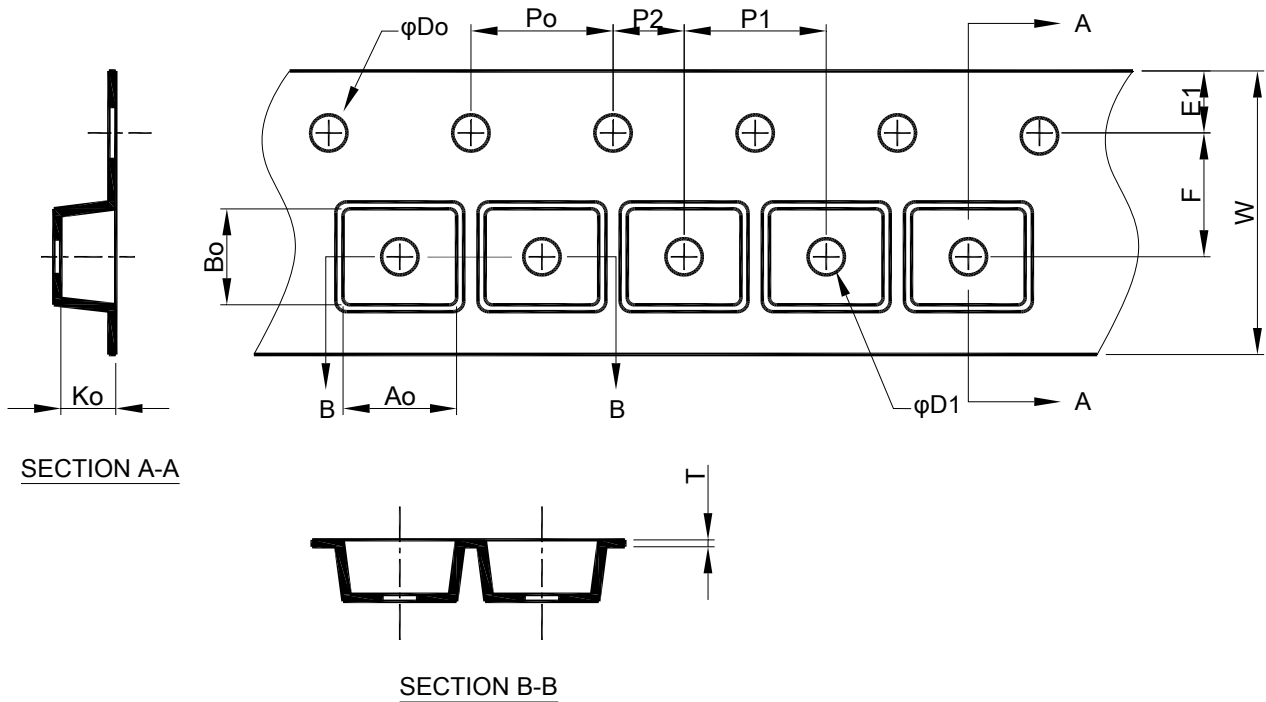
● SOT-89 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	4.80 ± 0.20	4.50 ± 0.20	1.80 ± 0.20	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	8.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	5.50 ± 0.05	12.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

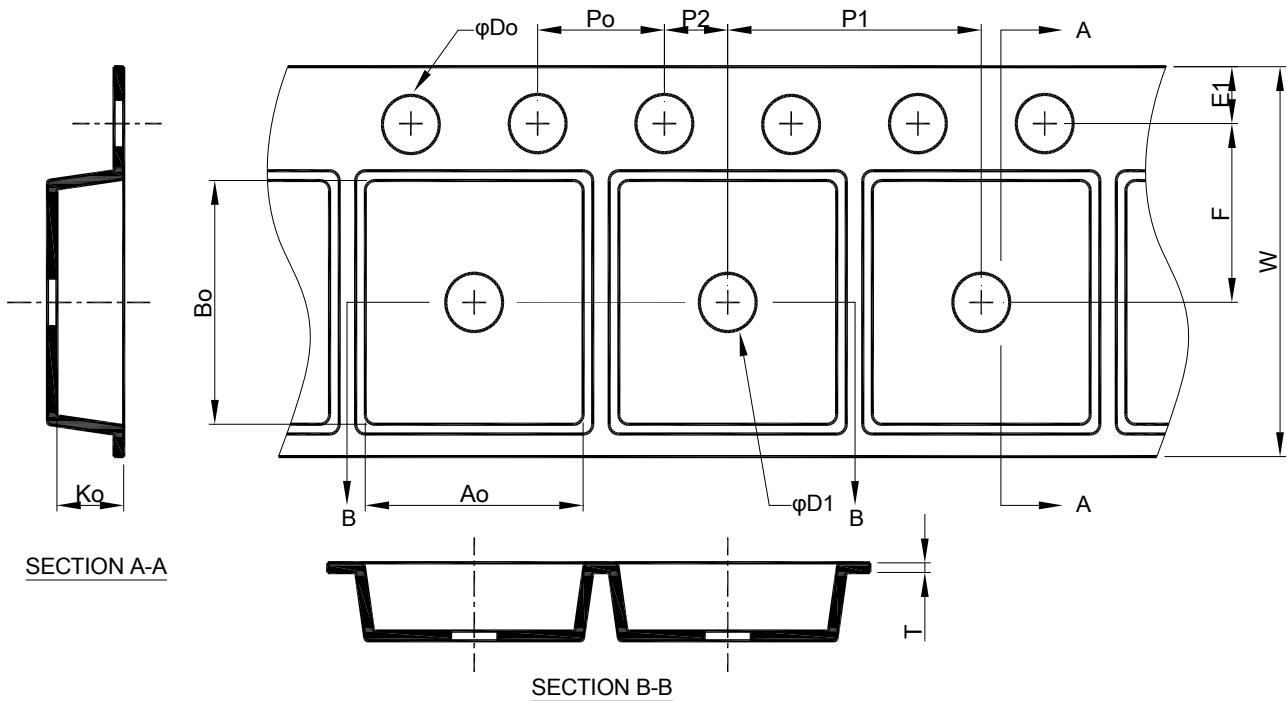
● SOT-143 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	3.20 ± 0.20	2.70 ± 0.20	1.35 ± 0.20	0.20 ± 0.03	$1.50^{+0.10}_{-0.00}$	1.00 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

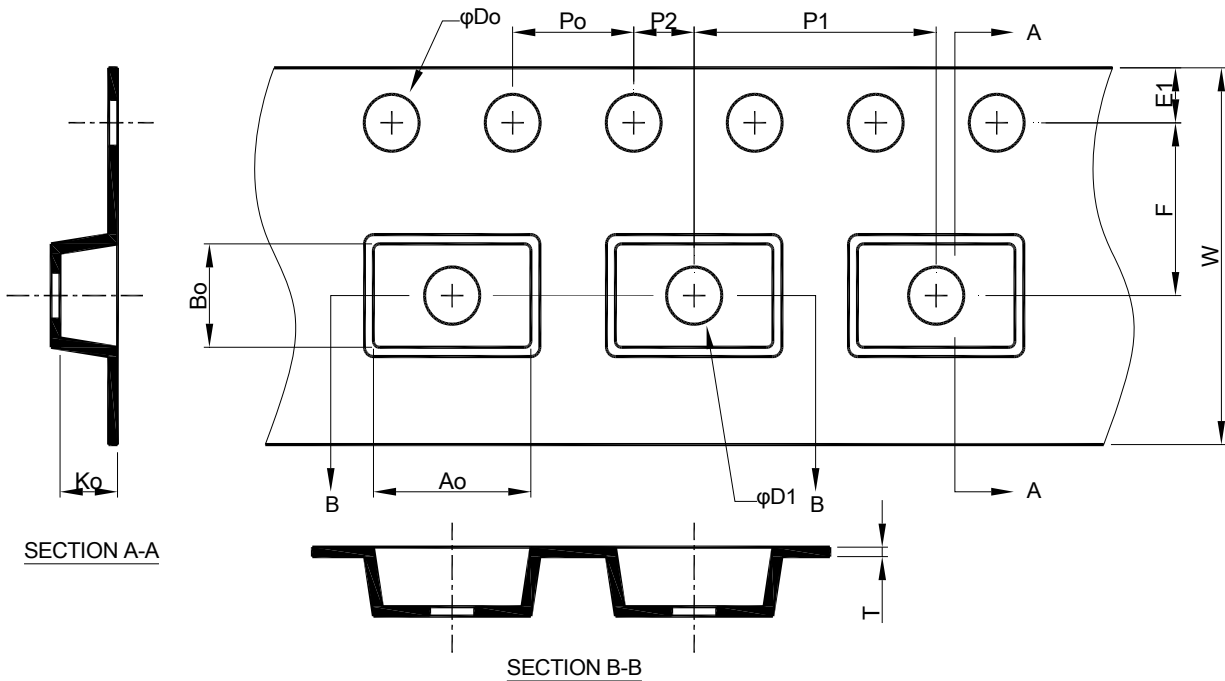
● SOT-223 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	6.90 ± 0.20	7.50 ± 0.20	2.10 ± 0.20	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	8.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	5.50 ± 0.05	12.00 ± 0.30

- Note:
1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

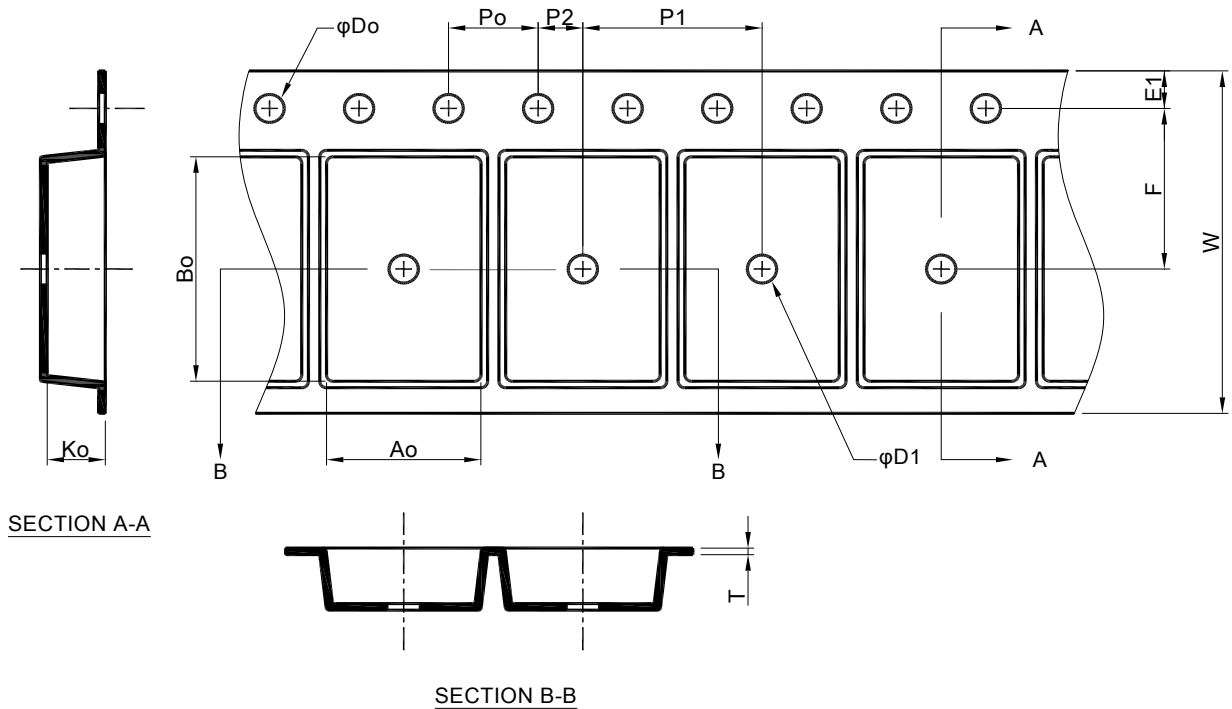
● MSOP-8/10 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	5.20 ± 0.20	3.30 ± 0.20	1.60 ± 0.20	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	8.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	5.50 ± 0.05	12.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

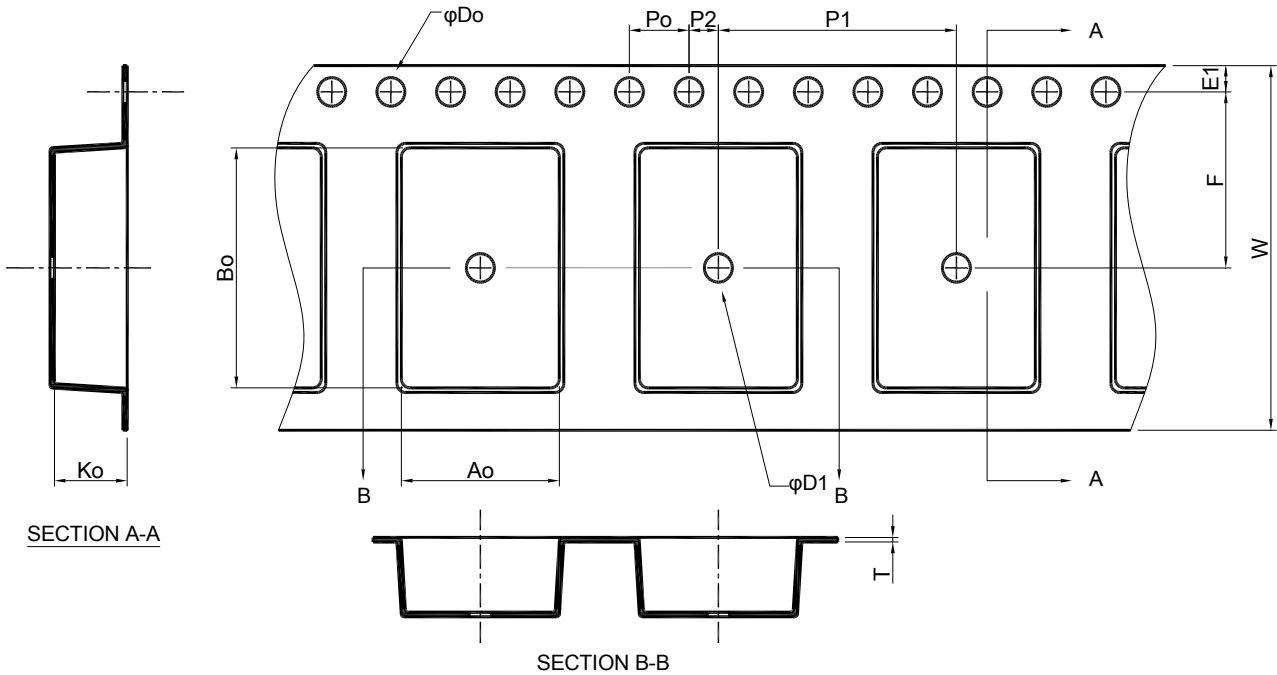
● TO-252 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	6.90 ± 0.20	10.50 ± 0.20	2.60 ± 0.20	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	8.00 ± 0.10	2.00 ± 0.10	1.75 ± 0.10	7.50 ± 0.10	16.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

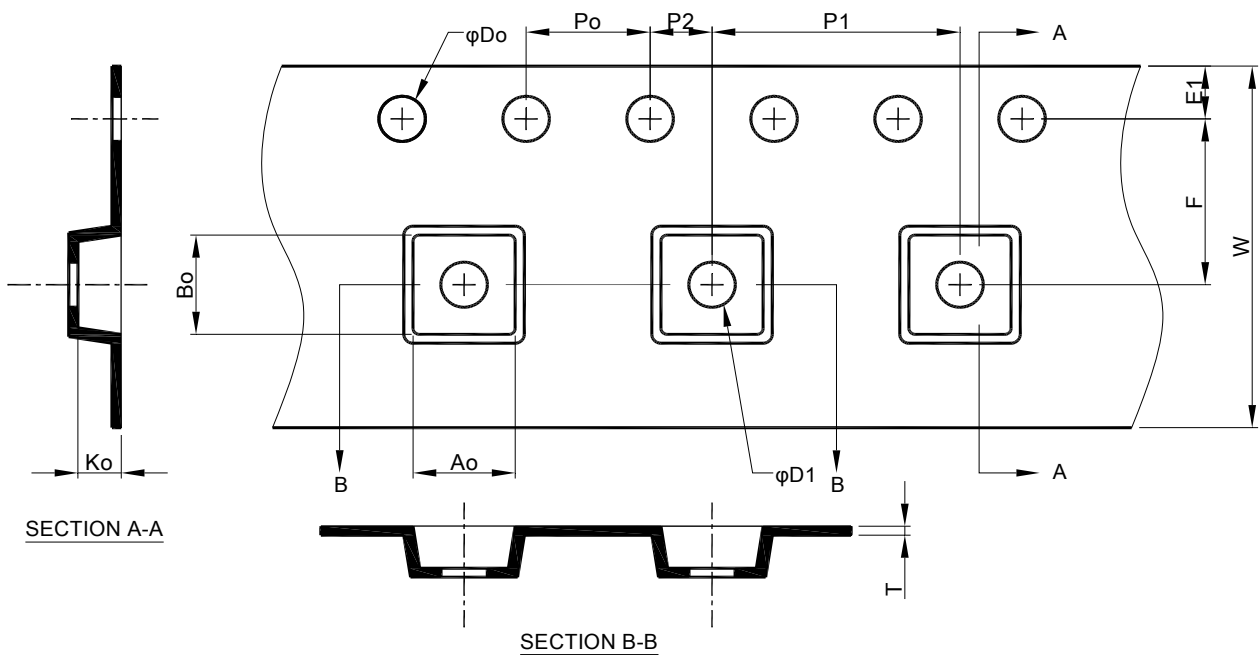
● TO-263 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	10.60 ± 0.20	16.10 ± 0.50 *Note 6	4.90 ± 0.20	0.35 ± 0.05	$1.50 \begin{matrix} +0.10 \\ -0.00 \end{matrix}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	16.00 ± 0.10	2.00 ± 0.10	1.75 ± 0.10	11.50 ± 0.10	24.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier
 6. A_o and B_o must keep the lateral movement of the component within 1.0 mm in the pocket

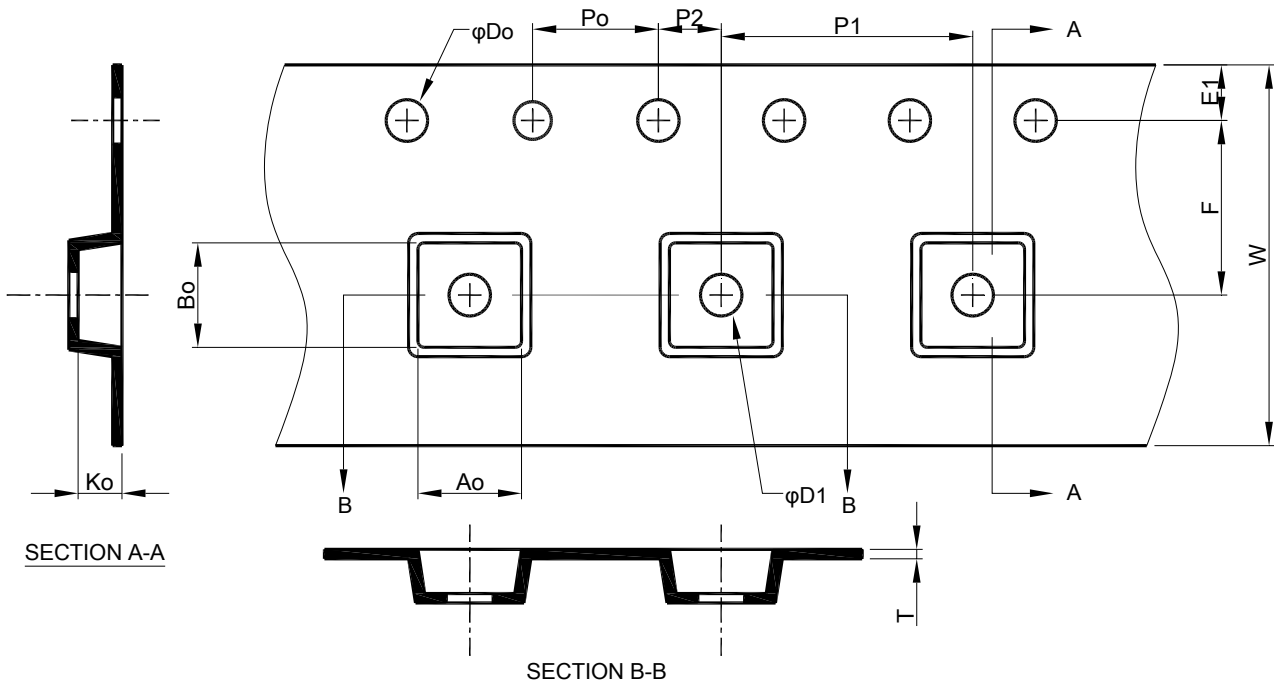
● QFN 3x3x0.6 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	$D1$
SPEC.	3.30 ± 0.20	3.30 ± 0.20	0.90 ± 0.20	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	$P1$	$P2$	$E1$	F	W
SPEC.	4.00 ± 0.10	8.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	5.50 ± 0.05	12.00 ± 0.30

- Note :
1. 10 sprocket hole pitch cumulative tolerance ± 0.2
 2. Material: conductive polystyrene
 3. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 4. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

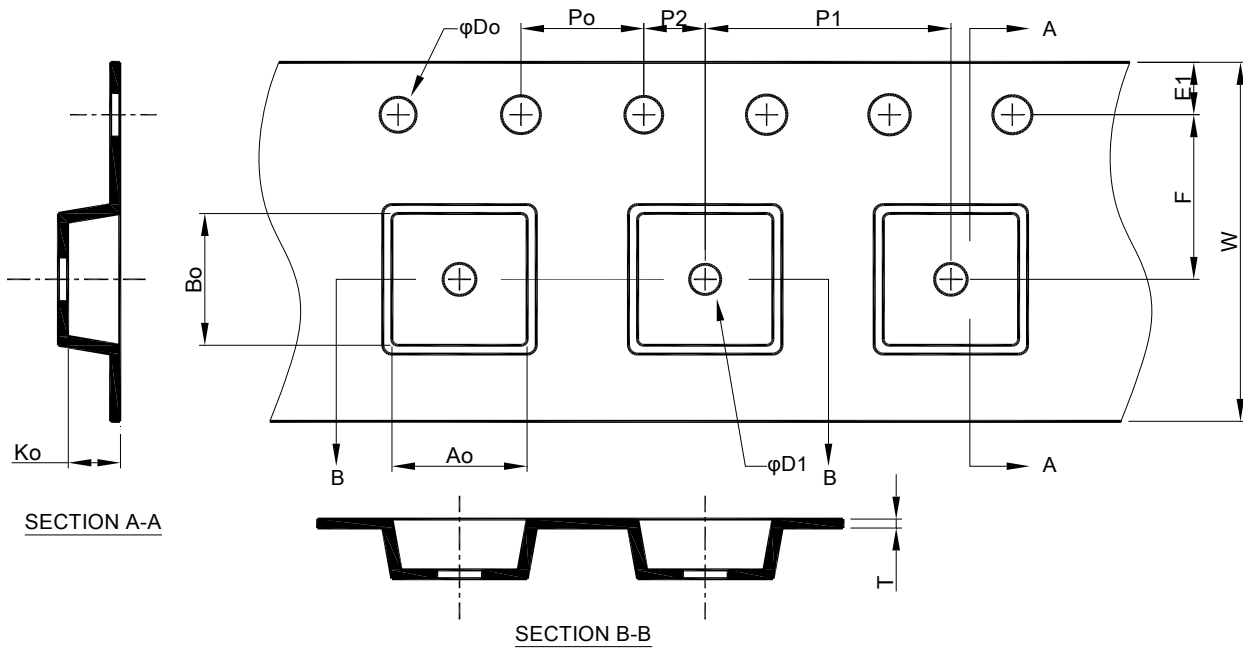
● QFN 3x3x0.9 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	3.30 ± 0.20	3.30 ± 0.20	1.20 ± 0.20	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	8.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	5.50 ± 0.05	12.00 ± 0.30

- Note:
1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

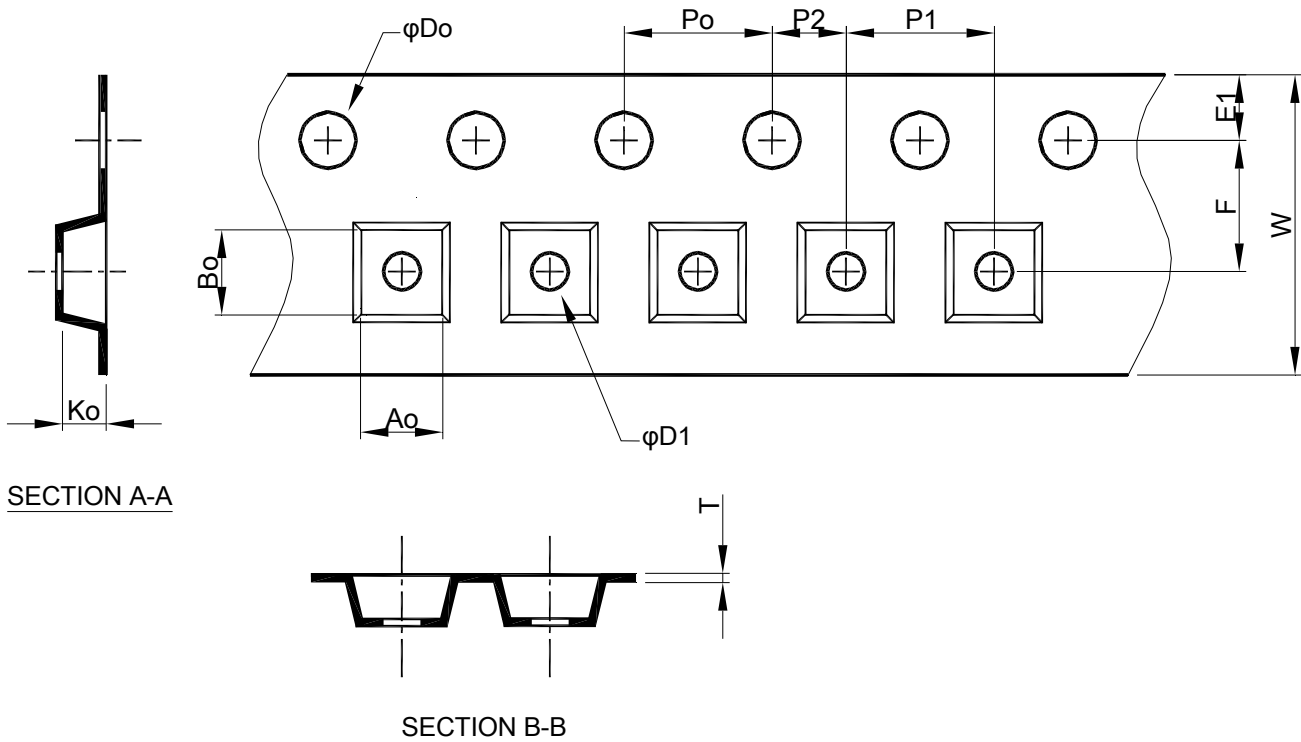
● QFN 4x4x0.9 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	$D1$
SPEC.	4.40 ± 0.20	4.40 ± 0.20	1.20 ± 0.20	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	$P1$	$P2$	$E1$	F	W
SPEC.	4.00 ± 0.10	8.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	5.50 ± 0.05	12.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

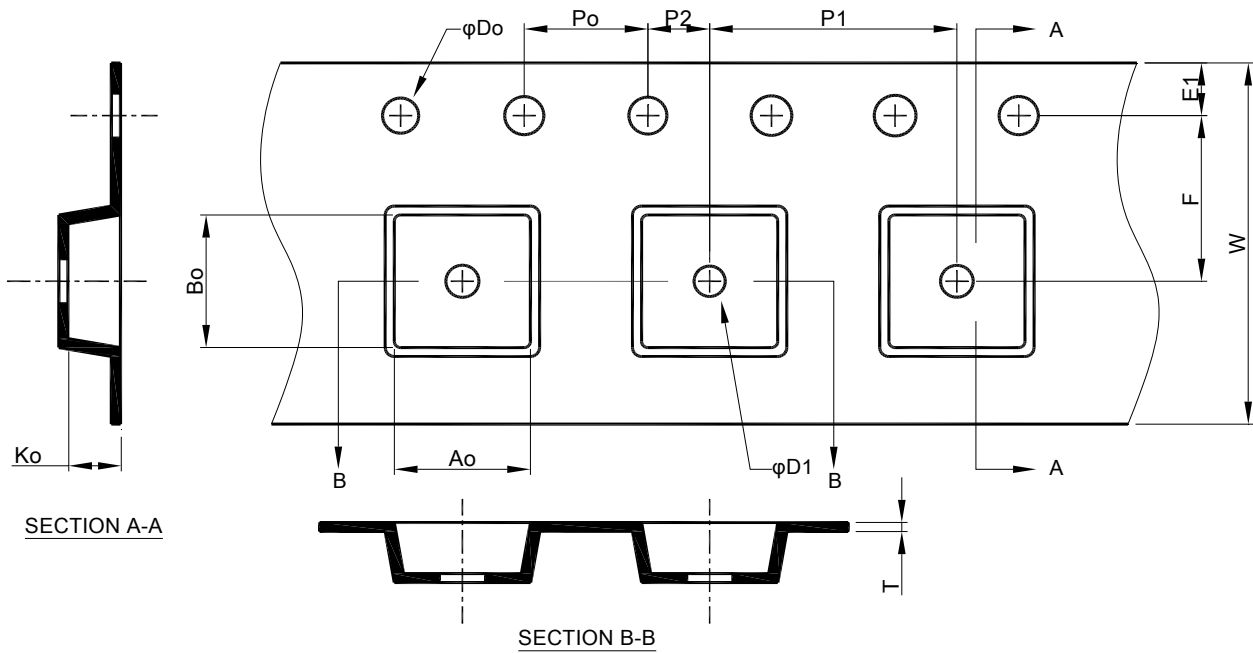
● DFN 2x2x0.75 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	ϕD_o	ϕD_1
SPEC.	2.30 ± 0.10	2.30 ± 0.10	1.15 ± 0.10	0.26 ± 0.04	$1.50 \begin{matrix} +0.10 \\ -0.00 \end{matrix}$	$1.00 \begin{matrix} +0.25 \\ -0.00 \end{matrix}$
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

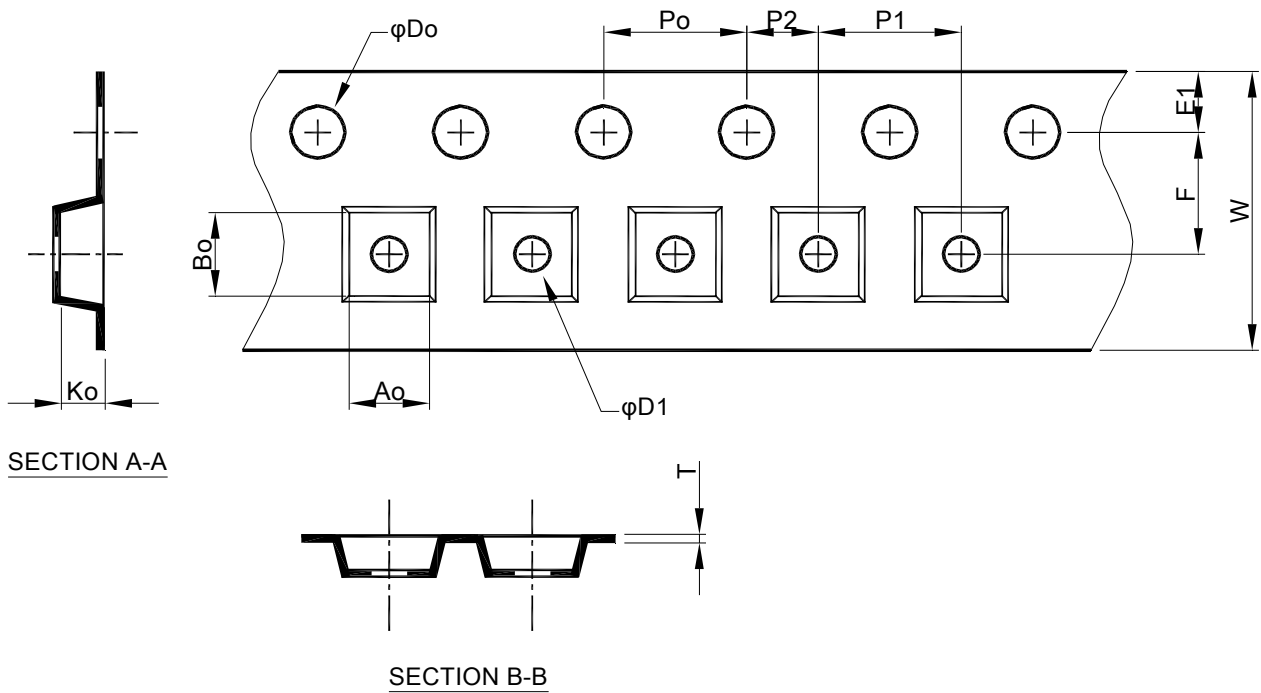
● DFN 3x3x0.75 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	3.30 ± 0.20	3.30 ± 0.20	1.15 ± 0.25	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	8.00 ± 0.10	2.00 ± 0.10	1.75 ± 0.10	5.50 ± 0.10	12.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

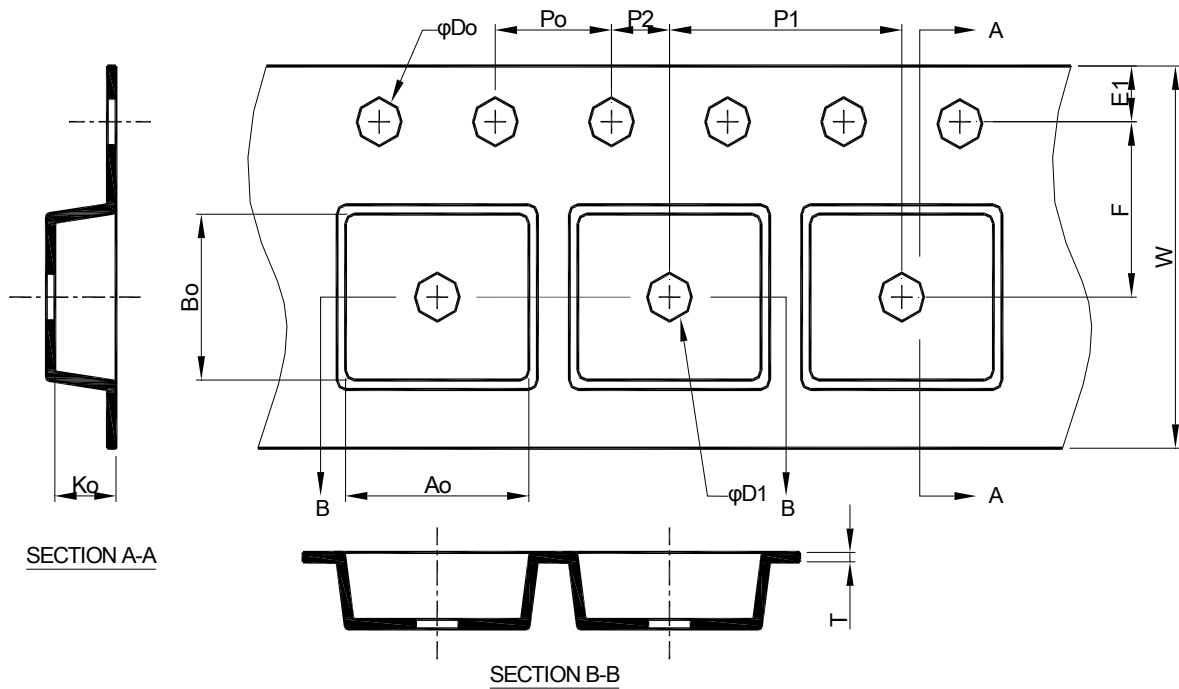
● SC-70/SC-82 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	ϕD_o	ϕD_1
SPEC.	2.25 ± 0.10	2.40 ± 0.10	1.22 ± 0.10	0.254 ± 0.02	$1.50^{+0.10}_{-0.00}$	$1.00^{+0.25}_{-0.00}$
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	3.50 ± 0.05	$8.00^{+0.30}_{-0.10}$

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier

● TSSOP-16 CARRIER TAPE OUTLINE DRAWING



SYMBOL	A_o	B_o	K_o	T	D_o	D_1
SPEC.	6.80 ± 0.20	5.40 ± 0.20	1.60 ± 0.20	0.30 ± 0.05	$1.50^{+0.10}_{-0.00}$	1.50 min.
SYMBOL	P_o	P_1	P_2	E_1	F	W
SPEC.	4.00 ± 0.10	8.00 ± 0.10	2.00 ± 0.05	1.75 ± 0.10	5.50 ± 0.05	12.00 ± 0.30

- Note: 1. Refer to EIA-481-B
 2. 10 sprocket hole pitch cumulative tolerance ± 0.2
 3. Material: conductive polystyrene
 4. A_o and B_o measured on a plane 0.3mm above the bottom of the pocket
 5. K_o measured from a plane on the inside bottom of the pocket to the top surface of the carrier