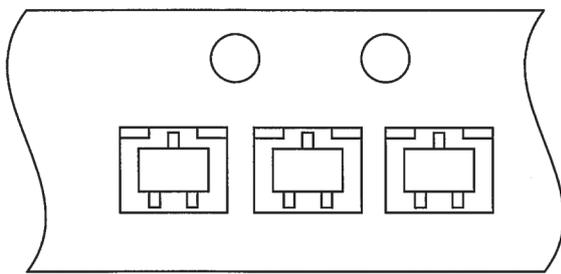
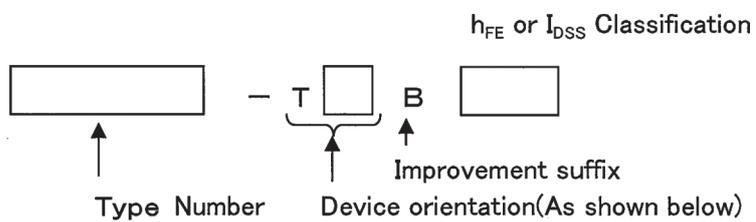


EMBOSSED TAPE CONTAINER

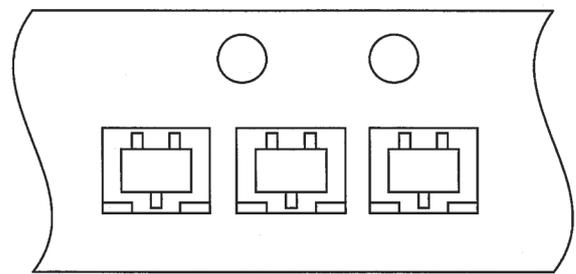
1. SCOPE

This specification covers standards on tape packaging and related practices for NEC subminiature electron devices "MINI MOLD (Thin Type)"

2. ORDERING INFORMATION AND DEVICES ORIENTATION



“-T1B”



“-T2B”

3. SPECIFICATION

- 3.1 TAPE DIMENSIONS Fig1
- 3.2 DIMENSIONS ON REEL Fig2
- 3.3 LEADER AND TRAILER Fig3

EMBOSSED TAPE CONTAINER

3.4 RELATED PRACTICES

3.4.1 MISSING DEVICE

| ITEM | SPEC | REMARKS |
|---------------------|---------------|--|
| Successive void | None | With in 40mm of carrier except leader or trailer portion |
| Non successive void | 0.2% MAX/reel | Except leader or trailer portion |

3.4.2 MECHANICAL DATA

| ITEM | REFERENCE DATA | REMAKS |
|---------------------|----------------|---|
| Cover tape adhesion | $0.4 \pm 0.3N$ | <p>Diagram description: A carrier tape with devices is shown. A cover tape is being pulled upwards at an angle of 0 to 15 degrees. The force applied is $F(S=300 \pm 10 \text{ mm/min})$. An arrow indicates the direction of tape movement.</p> |
| Tape bend strength | — | When the tape is bend with 15.0mm radius no device should pop out |

3.4.3 TAKING DEVICES OUT OF THE TAPE

- (1) Devices should not adhere to the cover tape.
- (2) Flush of Epoxy resin on Heat Sink should not affect on taking out the devices.

3.4.4 SPLICING

No carrier or cover tape should be spliced within 1 reel.

3.4.5 ELECTRICAL CHARACTERISTICS ($T_A=25^\circ C$)

Electrical characteristics of taping devices shall be provided in the specification.

3.4.6 KEEPING CONDITIONS

Maximum Temperature
40°C

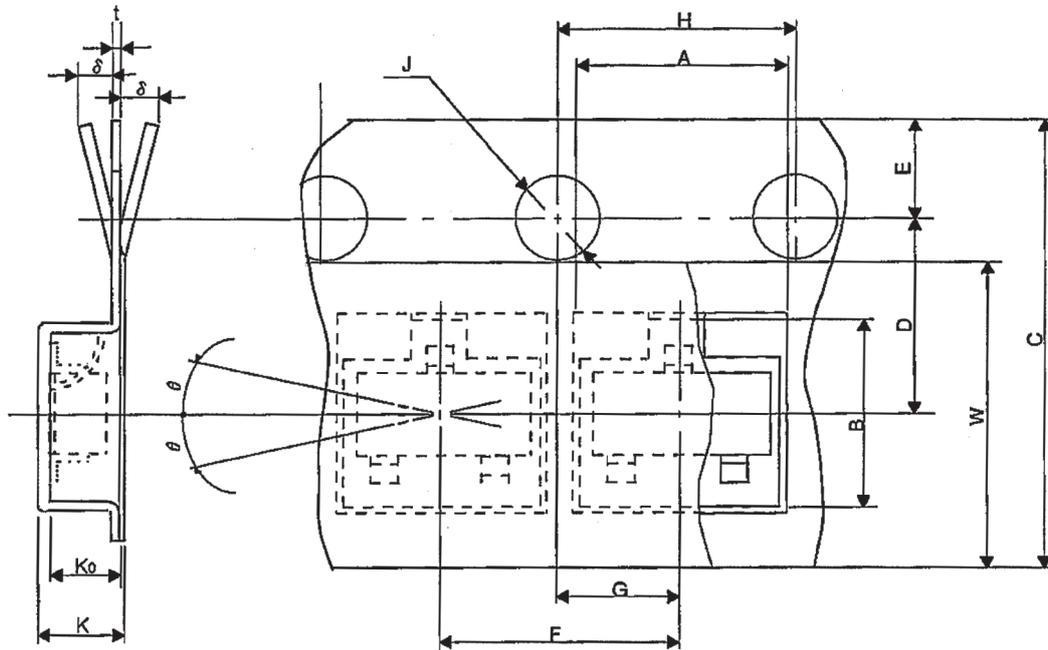
Maximum Humidity
80%

4. QUANTITY

3,000 pieces/reel

EMBOSSED TAPE CONTAINER

Fig. 1 TAPE DIMENSIONS

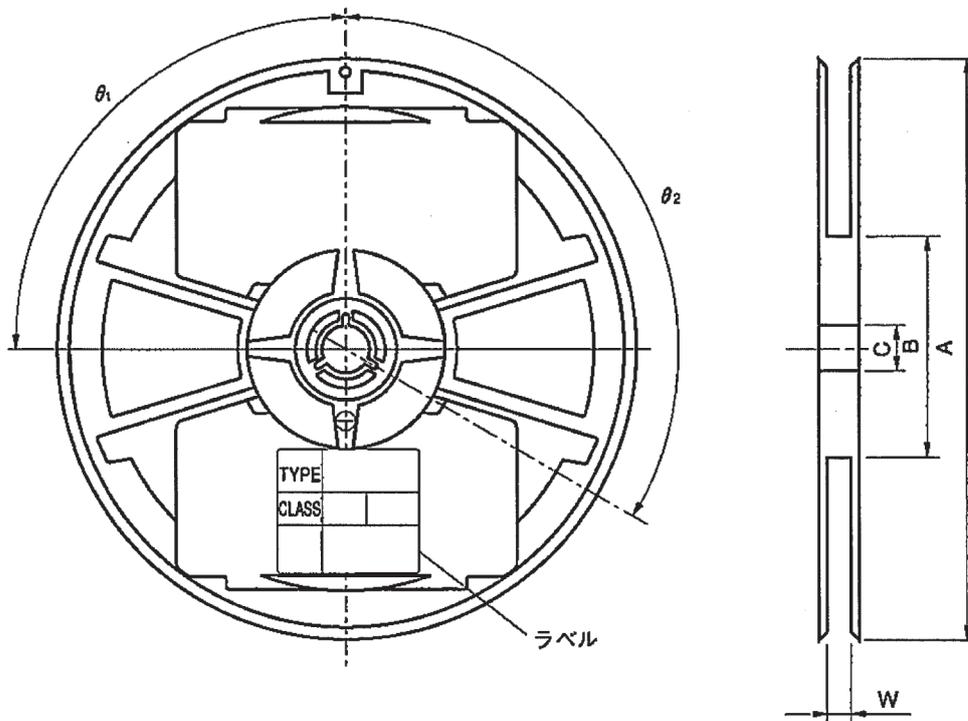


UNIT: mm

| ITEM | | SYMBOL | SIZE | REMARKS |
|------------------------------|------------------|----------------|---|---|
| Pocket | Length | A | 3.35±0.1 | |
| | Width | B | 3.3±0.1 | |
| | Depth | K ₀ | 1.4±0.1 | |
| | Pitch | F | 4.0±0.1 | Accumulated Tolerance $\begin{matrix} +0.1 \\ -0.3 \end{matrix}$ MAX. /10 Pitch |
| Perforation | Diameter | J | $\phi 1.5 \begin{matrix} +0.1 \\ -0 \end{matrix}$ | |
| | Pitch | H | 4.0±0.1 | Accumulated Tolerance $\begin{matrix} +0.1 \\ -0.3 \end{matrix}$ MAX. /10 Pitch |
| | Position | E | 1.75±0.1 | |
| Distance Between Centerlines | Length Direction | G | 2.0±0.05 | |
| | Width Direction | D | 3.5±0.05 | |
| Cover Tape | Width | W | 5.5 $\begin{matrix} +0.3 \\ -0 \end{matrix}$ | Thickness: 0.1 MAX. |
| Carrier Tape | Width | C | 8.0±0.2 | Bend : δ 0.3 MAX. |
| | Thickness | t | 0.2±0.05 | |
| Device | Outline | See Outline | | |
| | Tilt | θ | 30° MAX. | |
| Overall Thickness | | K | 1.65 MAX. | |

EMBOSSED TAPE CONTAINER

Fig. 2 DIMENSIONS ON REEL

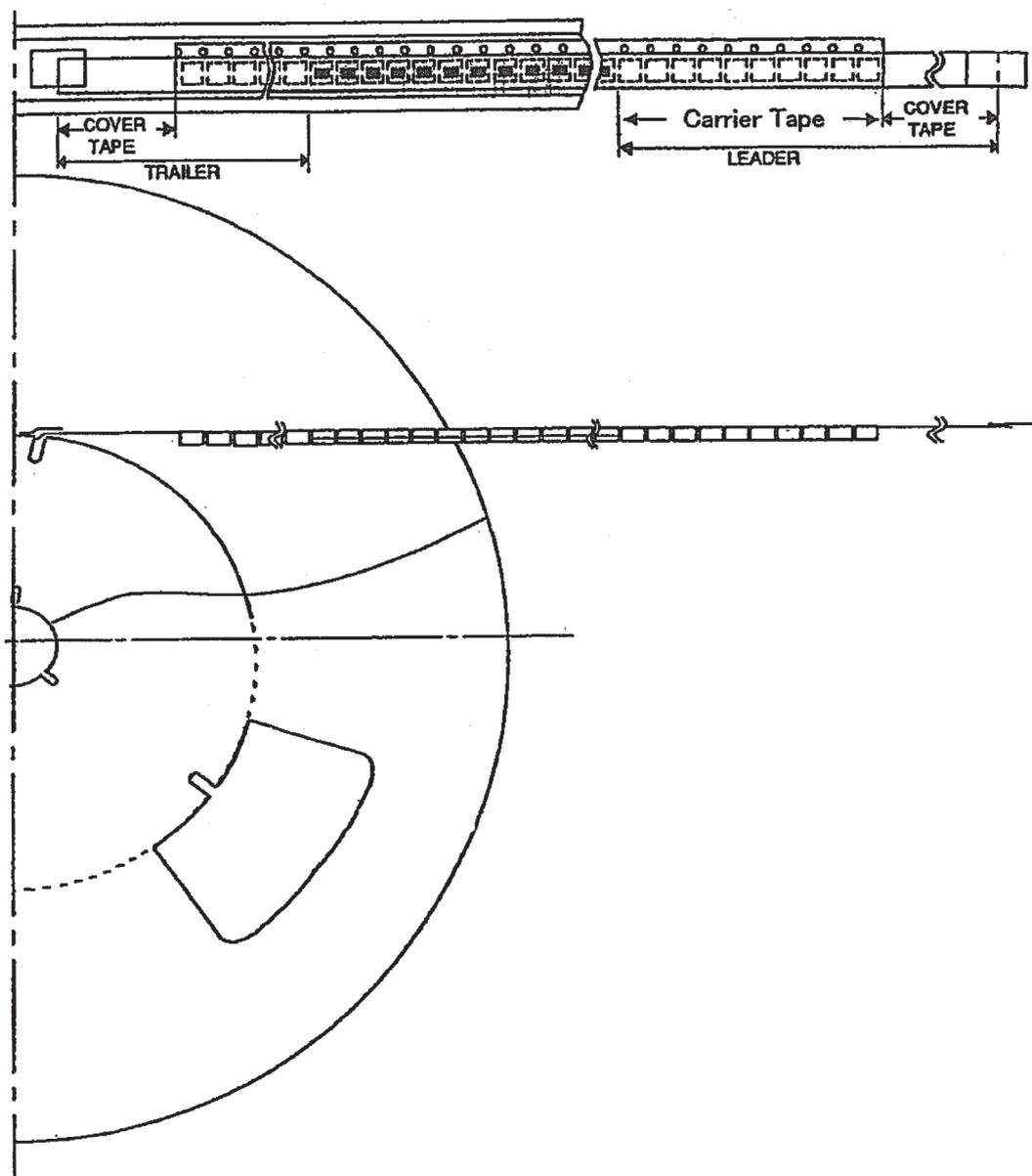


UNIT: mm

| ITEM | | SYMBOL | SIZE | REMARKS |
|---------|-----------------------|------------|-------------------|--|
| Flange | Diameter | A | $\phi 178 \pm 2$ | |
| | Space Between Flange | W | 9 ± 0.5 | |
| Hub | Outer Diameter | B | $\phi 60 \pm 1$ | |
| | Slit Location | θ_1 | 90° | |
| | Spindle Hole Diameter | C | $\phi 13 \pm 0.5$ | |
| | Key Slit Location | θ_2 | 120° | |
| Marking | | | | Type Number Quantity Lot code and Country of origin are marked or labeled. |

EMBOSSED TAPE CONTAINER

Fig. 3 LEADER AND TRAILER



UNIT:mm

| | ITEM | SPECIFICATION | REMARKS |
|---------|--------------|---------------|-------------------------------------|
| Leader | Cover Tape | — | Tip taped to roll. |
| | Carrier Tape | 100 MIN. | Take up direction as the above. |
| | | 400 MIN. | Cover Tape and Carrier Tape (Total) |
| Trailer | Carrier Tape | 160 MIN. | |