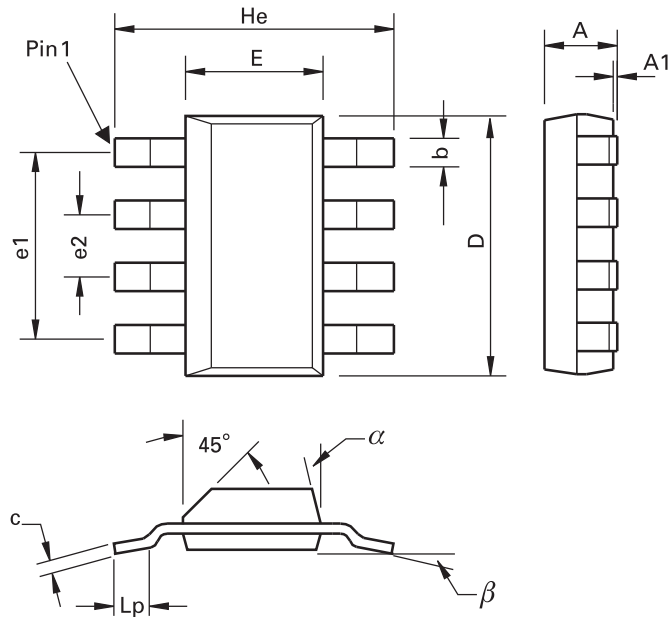


## Package information - SM8

Surface mounted, 8 pin package

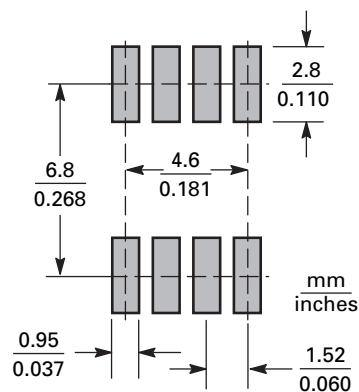
Package outline



| DIM | Millimeters |      |      | Inches |       |        | DIM      | Millimeters |      |      | Inches |       |        |
|-----|-------------|------|------|--------|-------|--------|----------|-------------|------|------|--------|-------|--------|
|     | Min.        | Max. | Typ. | Min.   | Max.  | Typ.   |          | Min.        | Max. | Typ. | Min.   | Max.  | Typ.   |
| A   | -           | 1.7  | -    | -      | 0.067 | -      | e1       | -           | -    | 4.59 | -      | -     | 0.1807 |
| A1  | 0.02        | 0.1  | -    | 0.0008 | 0.004 | -      | e2       | -           | -    | 1.53 | -      | -     | 0.0602 |
| b   | -           | -    | 0.7  | -      | -     | 0.0275 | He       | 6.7         | 7.3  | -    | 0.264  | 0.287 | -      |
| c   | 0.24        | 0.32 | -    | 0.009  | 0.013 | -      | Lp       | 0.9         | -    | -    | 0.035  | -     | -      |
| D   | 6.3         | 6.7  | -    | 0.248  | 0.264 | -      | $\alpha$ | -           | 15°  | -    | -      | 15°   | -      |
| E   | 3.3         | 3.7  | -    | 0.130  | 0.145 | -      | $\beta$  | -           | -    | 10°  | -      | -     | 10°    |

**Note:** Controlling dimensions are in millimeters. Approximate dimensions are provided in inches

Soldering footprint

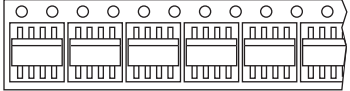


# Package information - SM8

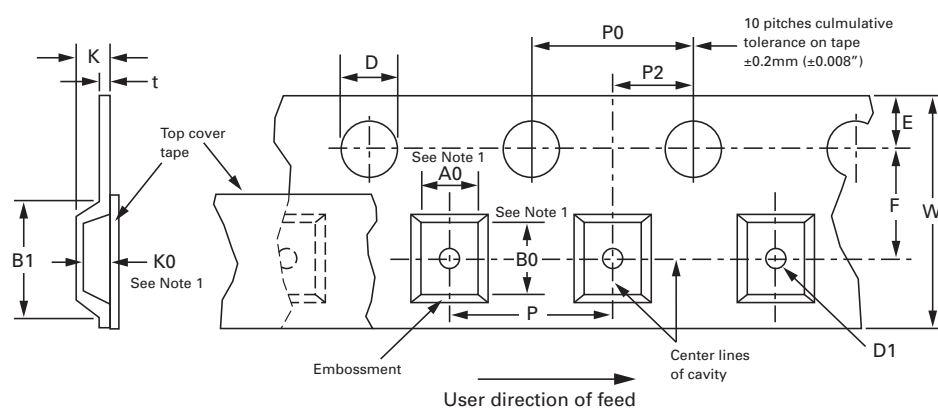
## Nominal weight

Nominal weight per device 117mg.

## Tape and reel information

| Orientation                                                                       | Tape width (mm) | Reel size (inches) | No. of components | Tape option indicator |
|-----------------------------------------------------------------------------------|-----------------|--------------------|-------------------|-----------------------|
|  | 12              | 7                  | 1,000             | TA                    |
|                                                                                   | 12              | 13                 | 4,000             | TC                    |

## Embossed carrier tape configuration



| Dimensions<br>mm (inches) | Tape size (mm)                 |                                                                  |                                                                                                     |                                                                                                       |
|---------------------------|--------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                           | 8                              | 12                                                               | 16                                                                                                  | 24                                                                                                    |
| A0, B0, K0                | See note*                      | See note*                                                        | See note*                                                                                           | See note*                                                                                             |
| B1 (max.)                 | 4.55 (0.179)                   | 8.20 (0.323)                                                     | 12.10 (0.476)                                                                                       | 20.10 (0.791)                                                                                         |
| D                         | 1.50 + 0.10 - 0.00             | 1.50 + 0.10 - 0.00                                               | 1.50 + 0.10 - 0.00                                                                                  | 1.50 + 0.10 - 0.00                                                                                    |
| D1 (max.)                 | 1.00 (0.039)                   | 1.50 (0.059)                                                     | 1.50 (0.059)                                                                                        | 1.50 (0.059)                                                                                          |
| E                         | 1.75 ± 0.10                    | 1.75 ± 0.10                                                      | 1.75 ± 0.10                                                                                         | 1.75 ± 0.10                                                                                           |
| F                         | 3.50 ± 0.10<br>(0.138 ± 0.004) | 5.50 ± 0.05<br>(0.217 ± 0.002)                                   | 7.50 ± 0.10<br>(0.295 ± 0.004)                                                                      | 11.50 ± 0.10<br>(0.453 ± 0.004)                                                                       |
| P                         | 4.00 ± 0.10<br>(0.157 ± 0.004) | 4.00 ± 0.10<br>(0.157 ± 0.004)<br>8.00 ± 0.10<br>(0.315 ± 0.004) | 4.00 ± 0.10<br>(0.157 ± 0.004)<br>8.00 ± 0.10<br>(0.315 ± 0.004)<br>12.00 ± 0.10<br>(0.472 ± 0.004) | 4.00 ± 0.10<br>(0.157 ± 0.004)<br>to 20.00 ± 0.10<br>(0.787 ± 0.004)<br>in 4.00 (0.157)<br>increments |
| P0                        | 4.00 ± 0.10                    | 4.00 ± 0.10                                                      | 4.00 ± 0.10                                                                                         | 4.00 ± 0.10                                                                                           |
| P2                        | 2.00 ± 0.05                    | 2.00 ± 0.05                                                      | 2.00 ± 0.05                                                                                         | 2.00 ± 0.05                                                                                           |
| t (max.)                  | 0.40                           | 0.40                                                             | 0.40                                                                                                | 0.40                                                                                                  |
| W                         | 8.00 (0.315)                   | 12.00 ± 0.30<br>(0.472 ± 0.012)                                  | 16.30 (0.642)                                                                                       | 24.30 (0.957)                                                                                         |

# Package information - SM8

## NOTES:

\* A0, B0 and K0 dimensions are determined with respect to EIA/JEDEC rotational and lateral movement requirements (see fig. 1).

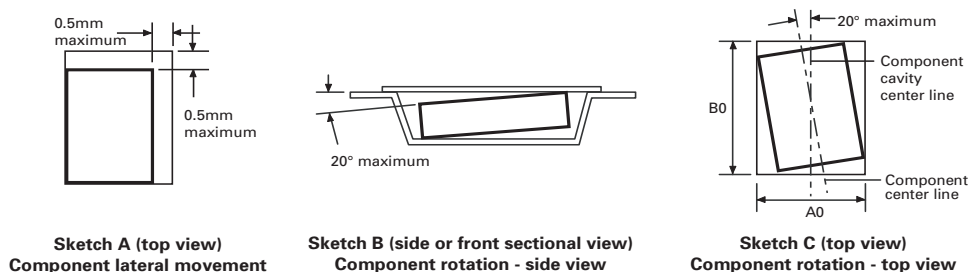
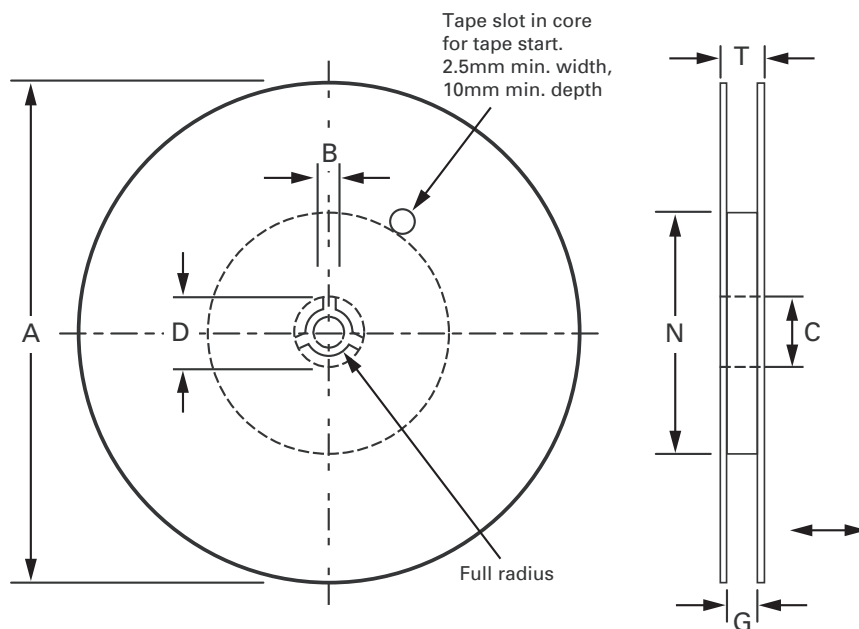


Figure 1 - rotational and lateral movement

## Reel configuration



| Tape option | A max.       | B min.     | C                               | D min.       | N min.     |
|-------------|--------------|------------|---------------------------------|--------------|------------|
| TA          | 179 (7.047)  | 1.5 (0.06) | 13.00 - 13.02<br>(0.512 - 0.52) | 25.0 (0.984) | 50 (1.969) |
| TC          | 330 (12.992) |            |                                 | 20.2 (0.795) |            |

| Tape size | G                           | T max.       |
|-----------|-----------------------------|--------------|
| 8mm       | 8.4 - 9.9 (0.33 - 0.39)     | 14.4 (0.567) |
| 12mm      | 12.4 - 16.4 (0.49 - 0.569)  | 18.4 (0.724) |
| 16mm      | 16.4 - 18.4 (0.65 - 0.729 ) | 22.4 (0.882) |
| 24mm      | 24.4 - 26.4 (0.96 - 1.039)  | 30.4 (1.197) |

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