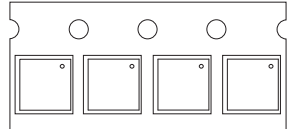


## Packing Quantity and Device Tape Orientation

| Package    | Tape Width | Reel Size | Pitch | Packaging Quantity |           |        | ESD/MBB Bag | Pin1 Position | Tape Orientation                                                                    | OPN Suffix |
|------------|------------|-----------|-------|--------------------|-----------|--------|-------------|---------------|-------------------------------------------------------------------------------------|------------|
|            | mm         | inch      | mm    | Reel               | Inner Box | Carton |             |               | Feed Direction                                                                      |            |
|            | mm         | inch      | mm    | kpcs               | kpcs      | kpcs   |             |               | →                                                                                   |            |
| DFN2020-3A | 8          | 7         | 4     | 3                  | 30        | 120    | NA          | Q2            |  | -TP        |

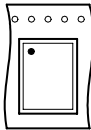
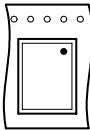
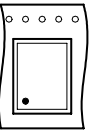
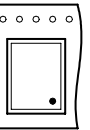
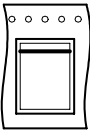
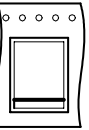
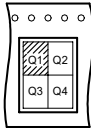
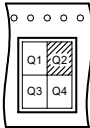
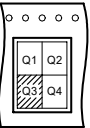
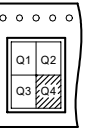
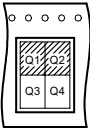
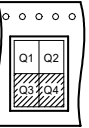
Note 1: All MOSFETs and other MSL3 products come with an ESD/MBB bag.

Note 2: These are minimum package quantities only. Minimum order quantities may vary. Please contact your sales representative for more information on minimum order quantities.

Note 3: MCC Tape&reel products meets EIA-481 specification.

Note 4: Please refer to the product datasheet for MSL level, RoHS and Halogen-Free compliance.

Note 5: Orientation guide for commonly used devices.

| Pin1 Position                            | Q1                                                                                  | Q2                                                                                  | Q3                                                                                  | Q4                                                                                   | Q1Q2                                                                                  | Q3Q4                                                                                  |
|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Orientation in Carrier                   |  |  |  |  |  |  |
| Termination 1<br>Orientation by Quadrant |  |  |  |  |  |  |

## Embossed Carrier Tape Specifications



| Tape Width  | A0         | B0 | K0 | B1         | E         | F          | P0        |
|-------------|------------|----|----|------------|-----------|------------|-----------|
| 8mm         | See Note 6 |    |    | See Note 7 | 1.75      | 3.5        | 4.0       |
| (Tolerance) |            |    |    |            | $\pm 0.1$ | $\pm 0.05$ | $\pm 0.1$ |

| Tape Width  | P1        | P2         | R         | R0        | T   | T1  | W         |
|-------------|-----------|------------|-----------|-----------|-----|-----|-----------|
| 8mm         | 4.0       | 2.0        | 1.5       | 1.0       | 0.6 | 2.4 | 8.0       |
| (Tolerance) | $\pm 0.1$ | $\pm 0.05$ | $+0.1/-0$ | $\pm 0.1$ | Max | Max | $\pm 0.3$ |

Note 6: A0, B0, and K0 are determined by component size. The clearance between the components and the cavity must be within 0.05 mm min to 0.50mm max.

Note 7: For machine reference only including draft and radii concentric around B0.

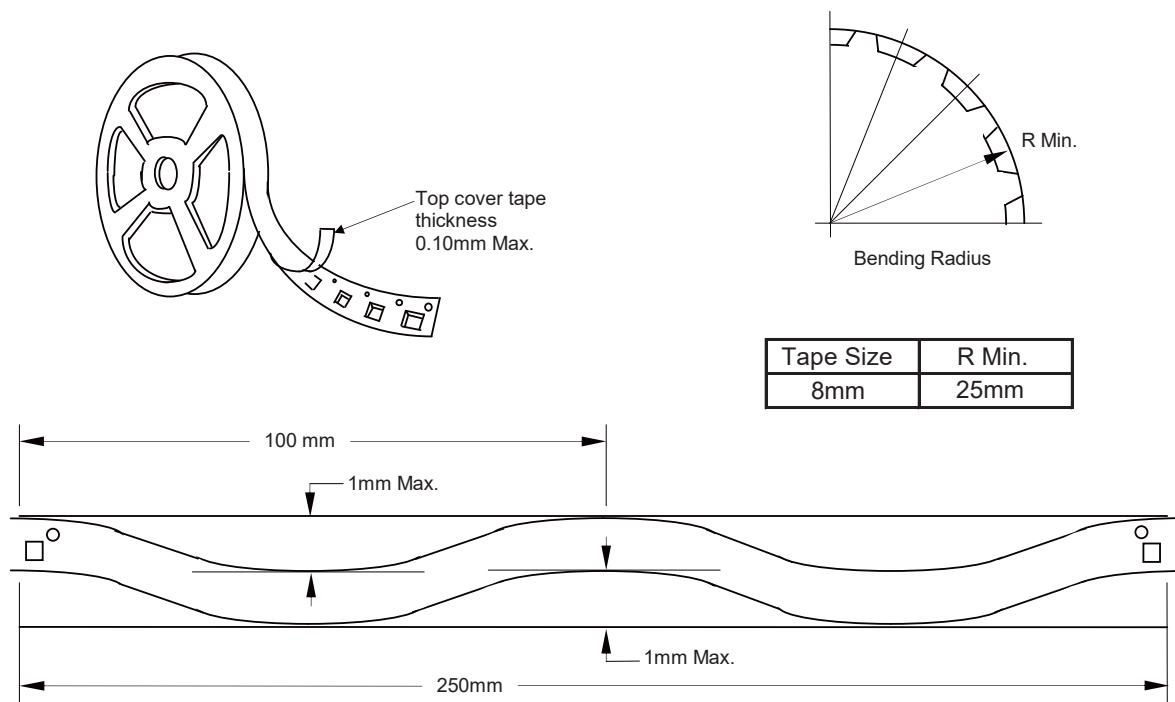


Maximum Lateral movement



Maximum Component Rotation

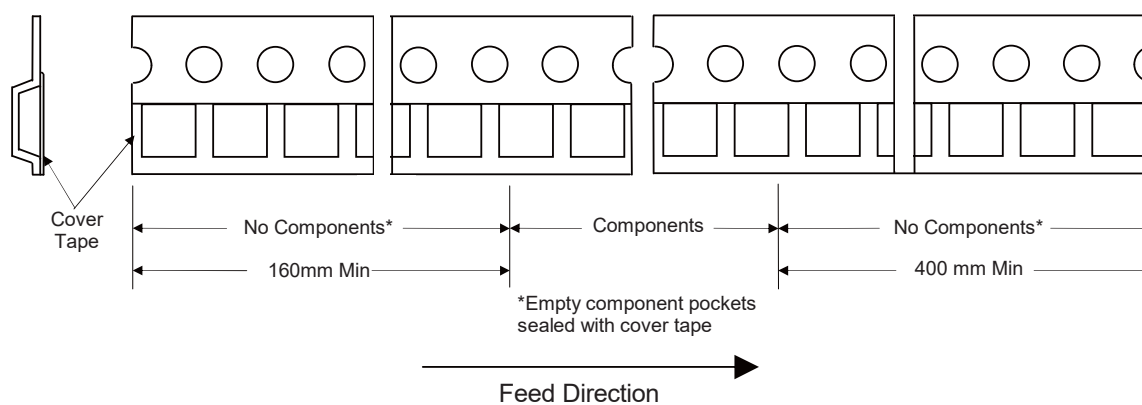
## Embossed Carrier Tape Specifications



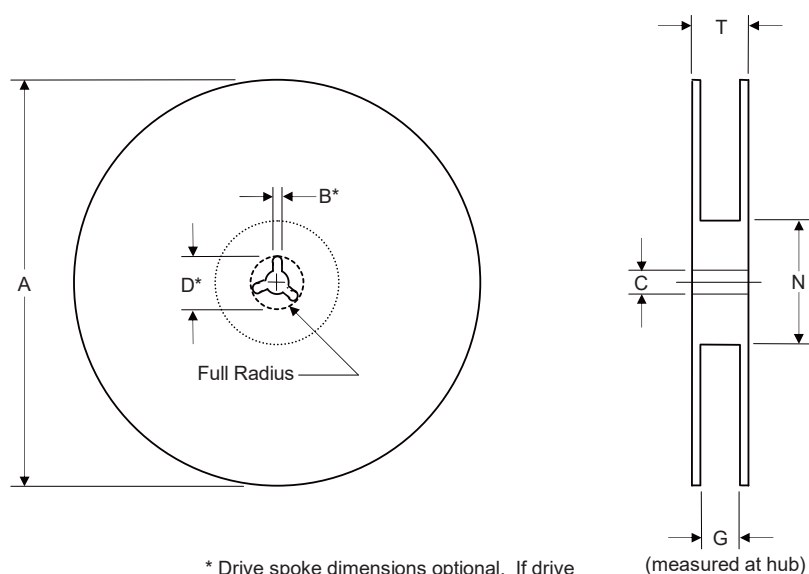
Camber (Top View)

Allowable camber to be 1mm/100mm non-accumulative over 250mm

## Start and Finish Specification



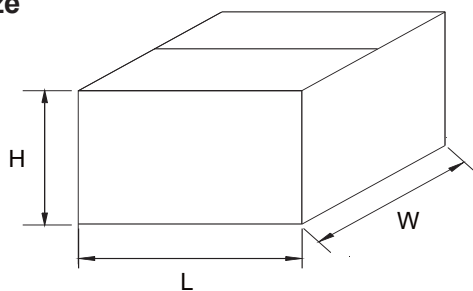
## Surface Mount Reel Specifications



| Tape Width  | A   | B   | C    | D    | N    | G     | T    |
|-------------|-----|-----|------|------|------|-------|------|
| 8mm         | 180 | 1.5 | 13.0 | 20.2 | 55   | 8.4   | 14.4 |
| (Tolerance) | Max | Min | ±0.2 | Min  | ±5.0 | + 1.5 | Max  |

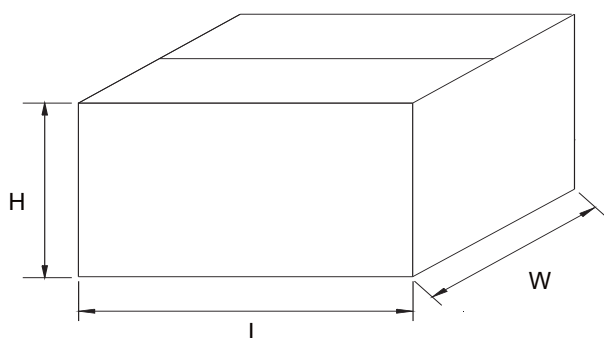
## Dimensions

### Inbox Size



| Dimension | Specification(mm typical) |         |
|-----------|---------------------------|---------|
|           | General                   | MBB Bag |
| L         | 187                       | 227     |
| W         | 130                       | 145     |
| H         | 187                       | 202     |

### Carton Size



| Dimension | Specification(mm typical) |         |
|-----------|---------------------------|---------|
|           | General                   | MBB Bag |
| L         | 390                       | 470     |
| W         | 275                       | 305     |
| H         | 207                       | 223     |