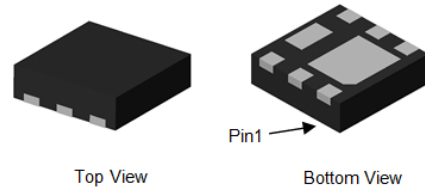


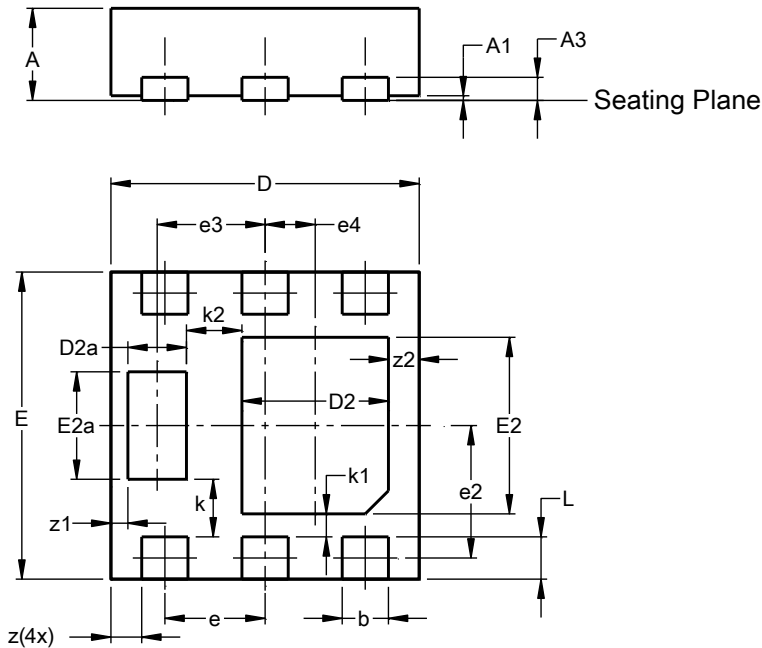
### Mechanical Data

- Surface Mount Package
- Sidewall tin Plating (SWP) for wettable flanks in AOI
- Weight: 0.008 grams (approximately)
- Case Material – Molded Plastic, UL Flammability Rating 94V-0
- Terminals: Finish – Matte Tin Solderable per MIL-STD-202, Method 208 **(e3)**

### Package View



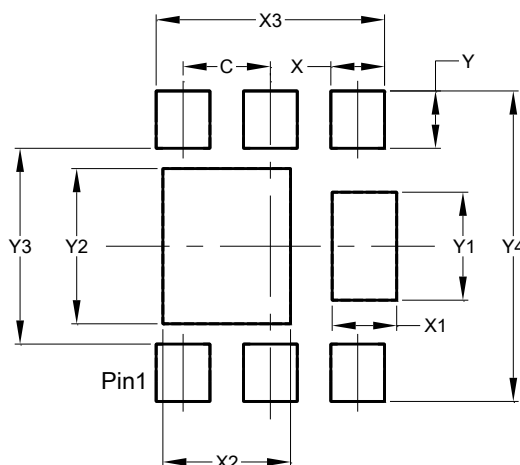
### Package Outline Dimensions



U-DFN2020-6 (Type F)			
Dim	Min	Max	Typ
A	0.57	0.63	0.60
A1	0.00	0.05	0.03
A3	-	-	0.15
b	0.25	0.35	0.30
D	1.95	2.05	2.00
D2	0.85	1.05	0.95
D2a	0.33	0.43	0.38
E	1.95	2.05	2.00
E2	1.05	1.25	1.15
E2a	0.65	0.75	0.70
e	0.65 BSC		
e2	0.863 BSC		
e3	0.70 BSC		
e4	0.325 BSC		
k	0.37 BSC		
k1	0.15 BSC		
k2	0.36 BSC		
L	0.225	0.325	0.275
z	0.20 BSC		
z1	0.110 BSC		
z2	0.20 BSC		
All Dimensions in mm			

### Suggested Pad Layout

U-DFN2020-6 (Type F)



Dimensions	Value (in mm)
C	0.650
X	0.400
X1	0.480
X2	0.950
X3	1.700
Y	0.425
Y1	0.800
Y2	1.150
Y3	1.450
Y4	2.300

**Note:** The suggested land pattern dimensions have been provided for reference only, as actual pad layouts may vary depending on application. These dimensions may be modified based on user equipment capability or fabrication criteria. A more robust pattern may be desired for wave soldering and is calculated by adding 0.2 mm to the 'Z' dimension. For further information, please reference document IPC-7351A, Naming Convention for Standard SMT Land Patterns, and for International grid details, please see document IEC, Publication 97.

**Note:** For high voltage applications, the appropriate industry sector guidelines should be considered with regards to creepage and clearance distances between device Terminals and PCB tracking.

### Minimum Packing Quantity

	Quantity	Tape Width	Part Number Suffix
<b>7" Reel</b>	3,000	8mm	-7
<b>13" Reel</b>	10,000	8mm	-13

**Note:** Package quantities given are for minimum packaging quantity only, not minimum order quantity. For minimum order quantity, please contact Sales Department.

**Note:** No mixed date codes or partial quantity (less than minimum packaging quantity) per packaging is allowed.

**Note:** In no case shall there be two or more consecutive components missing from any reel for any reason.

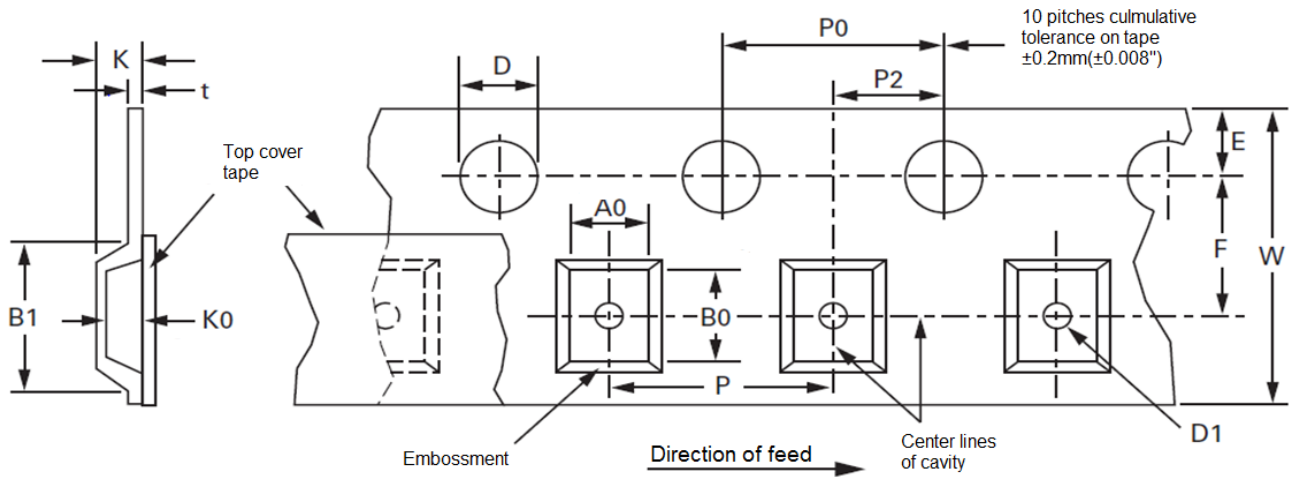
### Device Tape Orientation

Tape Width	Part Number Suffix	Tape Orientation
8mm	-7 -13	

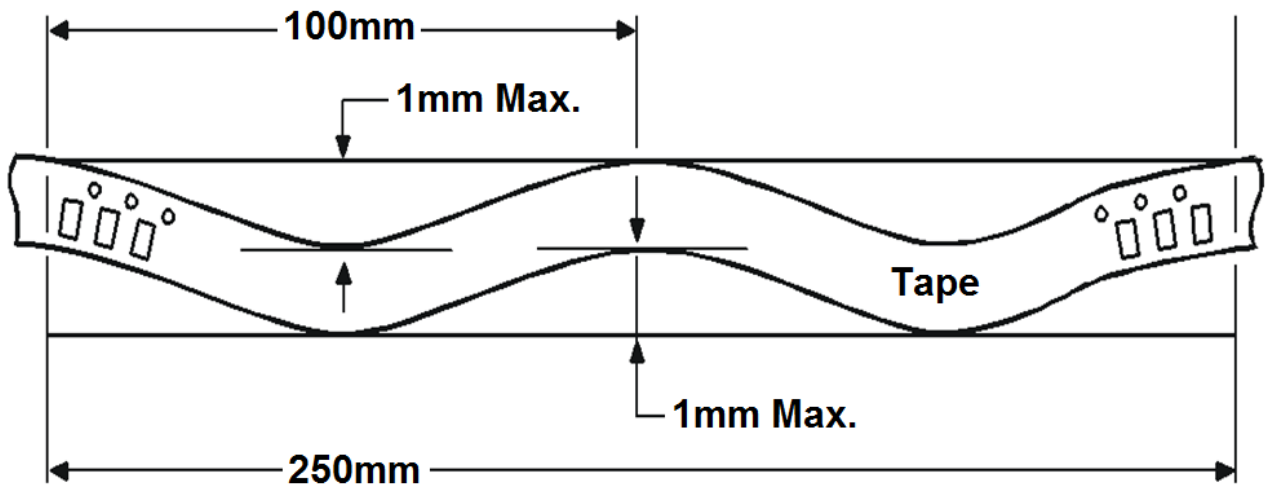
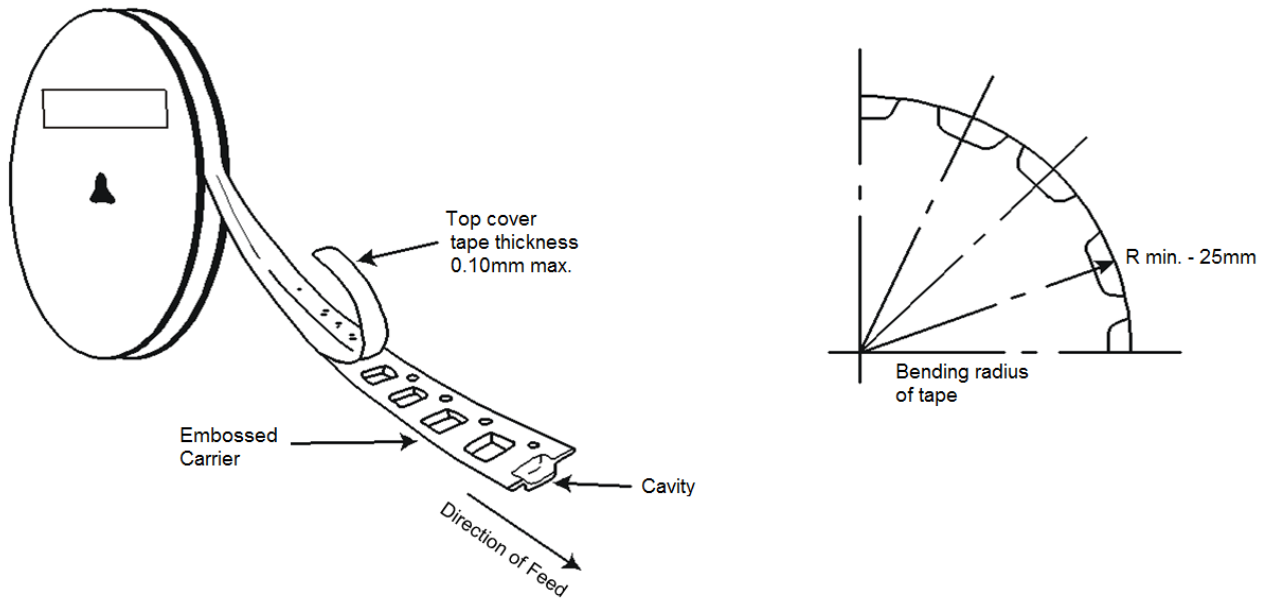
**Note:** For part marking, refer to product datasheet.

**Note:** Tape and package drawings are not to scale and are shown for device tape orientation only.

### Embossed Carrier Tape Specifications



Tape Width (W)	Dimension	Value (mm)	Dimension	Value (mm)	Dimension	Value (mm)
8mm	<b>B1</b>	4.5 max.	<b>F</b>	3.5±0.05	<b>P2</b>	2.0±0.05
	<b>D</b>	1.5+0.10 -0.0	<b>K</b>	2.4 max.	<b>t</b>	0.40 max.
	<b>D1</b>	0.35 min.	<b>P</b>	4.0±0.10	<b>W</b>	8±0.30
	<b>E</b>	1.75±0.10	<b>P0</b>	4.0±0.10		
	<b>A0 B0 K0</b>	Determined by component size. The clearance between the component and the cavity must comply to the rotational and lateral movement requirement provided in figures in the "Maximum Component Movement in Tape Pocket" section.				

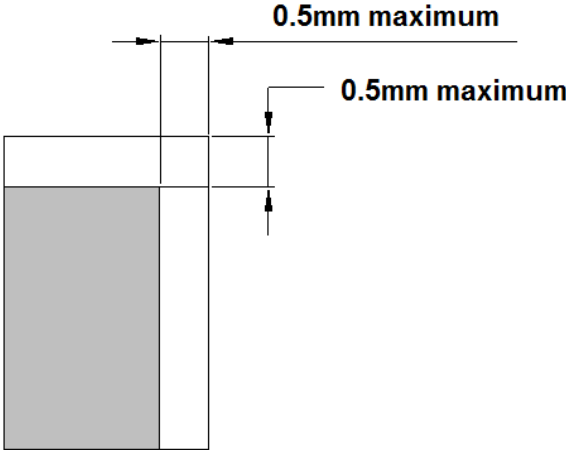


**Camber (Top View)**

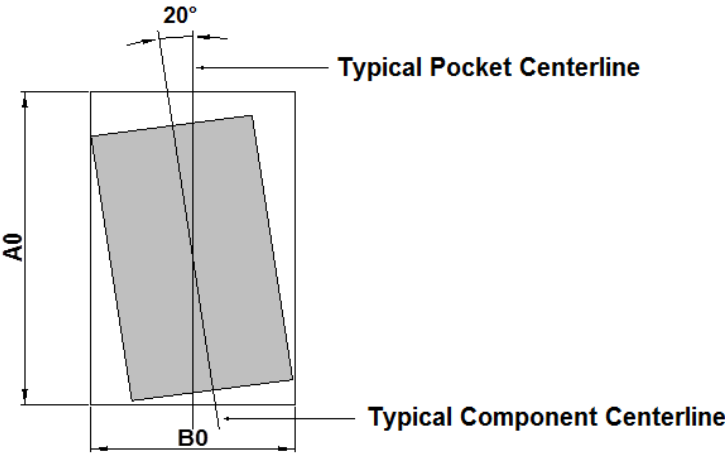
**Allowable camber to be 1mm/100mm tape, non-cumulative**

**Maximum Component Movement in Tape Pocket**

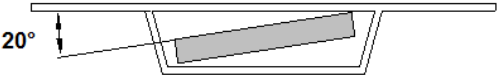
**Component Lateral Movement**  
**8mm Tape**



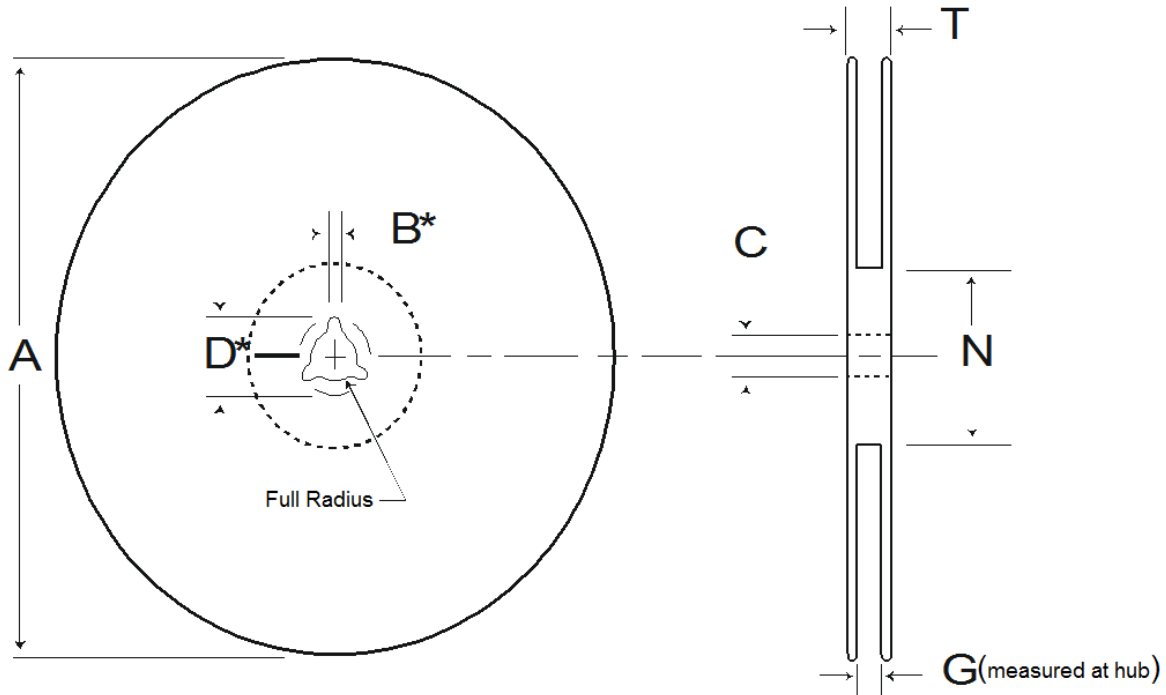
**Maximum Component Rotation**  
**Top View**



**Maximum Component Rotation**  
**Side View**



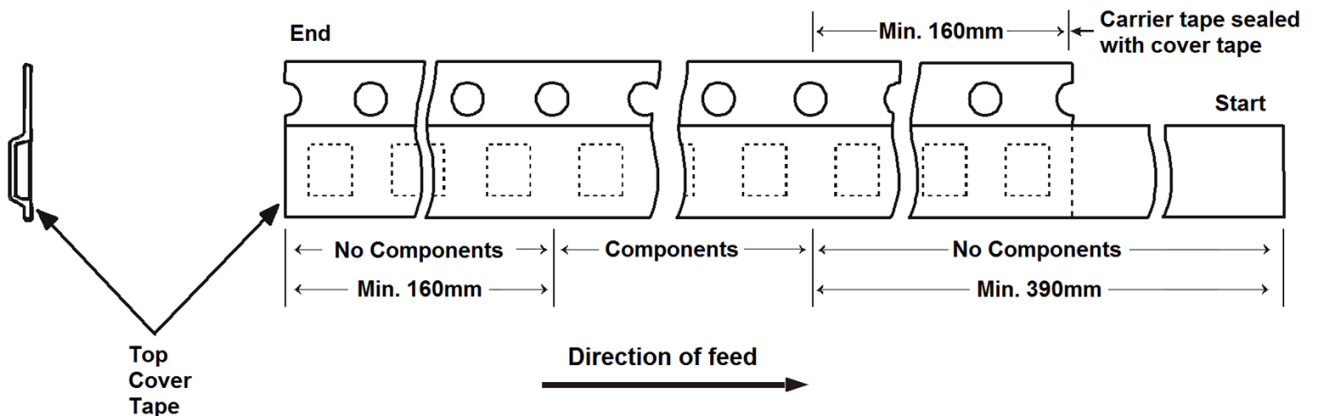
**Surface Mount Reel Specifications**



\* Drive spokes optional. If used, dimensions with asterisks apply

Tape Width	Reel Size	A (mm)	B Max (mm)	C (mm)	D Max (mm)	N Min (mm)	G (mm)	T Max (mm)
8mm	7"	178 ±2	2.0 +0.5 -0	13 +0.5 -0.2	20.5 ±0.2	55 ±5	8.4 +1.5 -0.0	14.4
	13"	330 ±2	2.0 +0.5 -0	13 +0.5 -0.2	20.5 ±0.2	100 ±2	8.4 +1.5 -0.0	14.4

**Tape Leader and Trailer Specifications**



- Note:** There shall be a leader of at least 230mm which may consist of carrier tape and/or cover tape or a start tape followed by at least 160mm of empty carrier tape sealed with cover tape.
- Note:** There shall be a trailer of at least 160mm of empty carrier tape sealed with cover tape. The entire carrier tape must release from the reel hub as the last portion of the tape unwinds from the reel without damage to the carrier tape and the remaining components in the cavities.