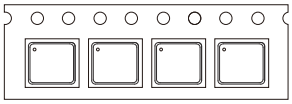
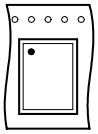
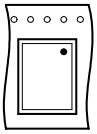
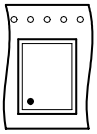
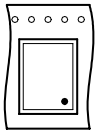
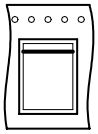
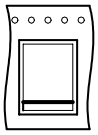
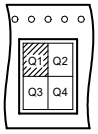
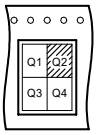
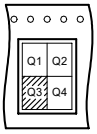
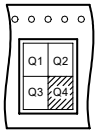
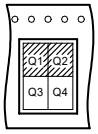
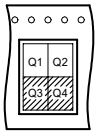
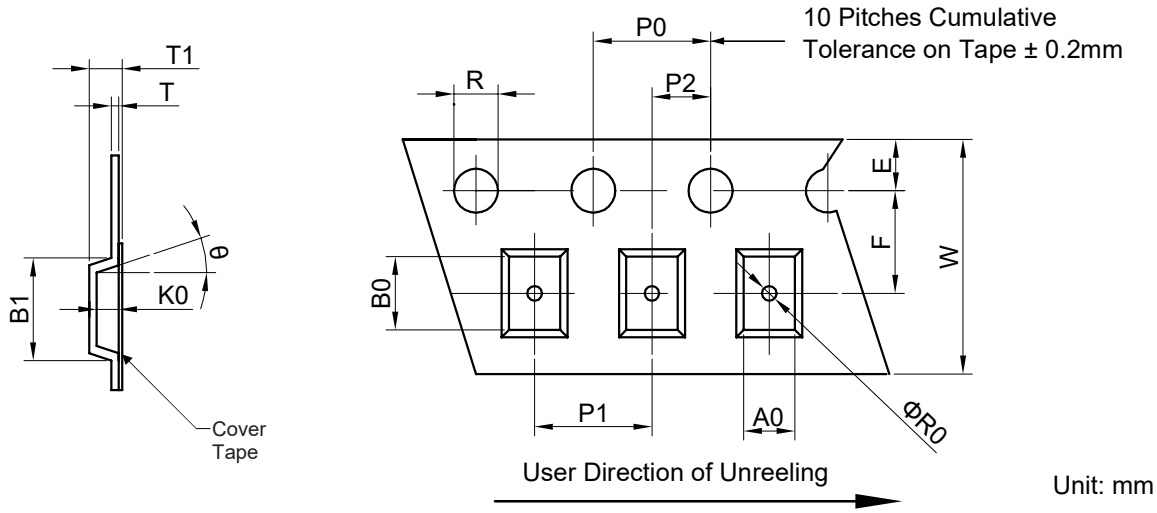
Packing Quantity and Device Tape Orientation

Package	Tape Width	Reel Size	Pitch	Packing Quantity			ESD/MBB Bag	Pin1 Position	Tape Orientation	OPN Suffix
				Reel	Inner Box	Carton			Feed Direction	
	mm	inch	mm	kpcs	kpcs	kpcs				
DFN3333-D	12	13	8	5	10	50	NA	Q1		-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 Orientation by Quadrant						

Embossed Carrier Tape Specifications

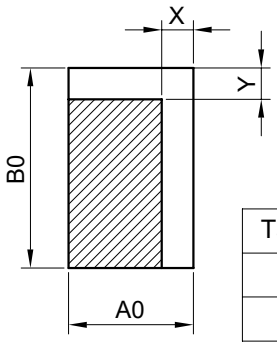


Tape Width	A0	B0	K0	B1	E	F	P0
12mm	See Note 6			See Note 7	1.75	5.5	4.0
(Tolerance)					±0.1	±0.05	±0.1

Tape Width	P1	P2	R	R0	T	T1	W
12mm	8.0	2.0	1.5	1.5	0.6	4.5	12.0
(Tolerance)	±0.1	±0.05	+0.1/-0	Min	Max	Max	±0.3

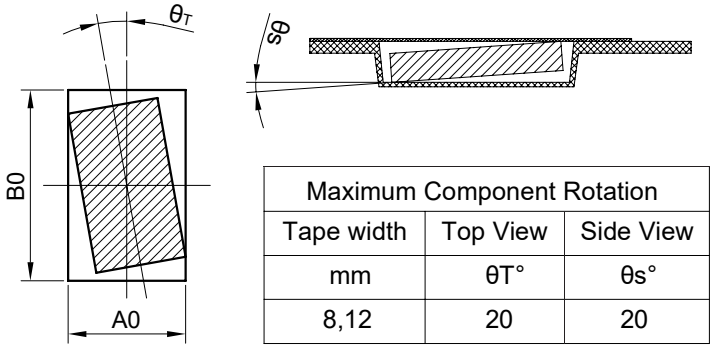
Note 6: A0, B0, and K0 are determined by component size. The clearance between the components and the cavity must be within 0.05 mm min to 0.50mm max.

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



Tape width	8,12mm
X (mm)	0.5
Y (mm)	0.5

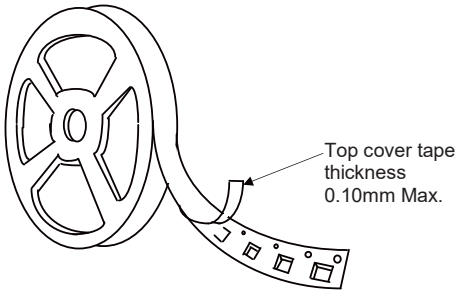
Maximum Lateral movement

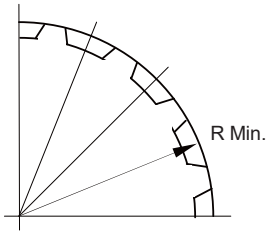


Maximum Component Rotation		
Tape width	Top View	Side View
mm	θT°	θs°
8,12	20	20

Maximum Component Rotation

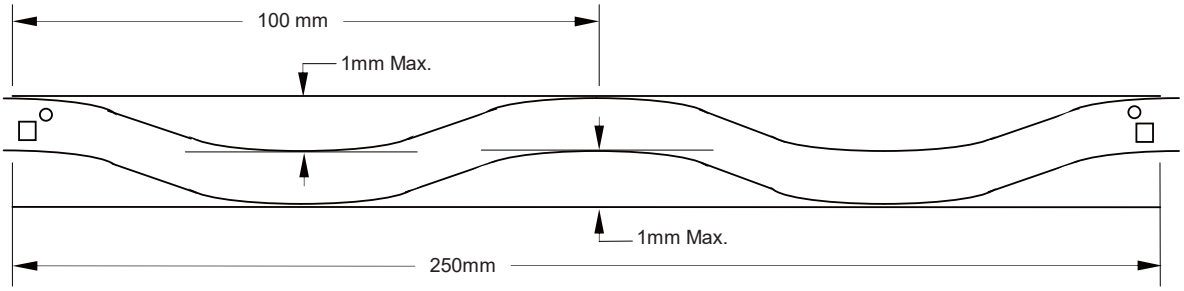
Embossed Carrier Tape Specifications





Bending Radius

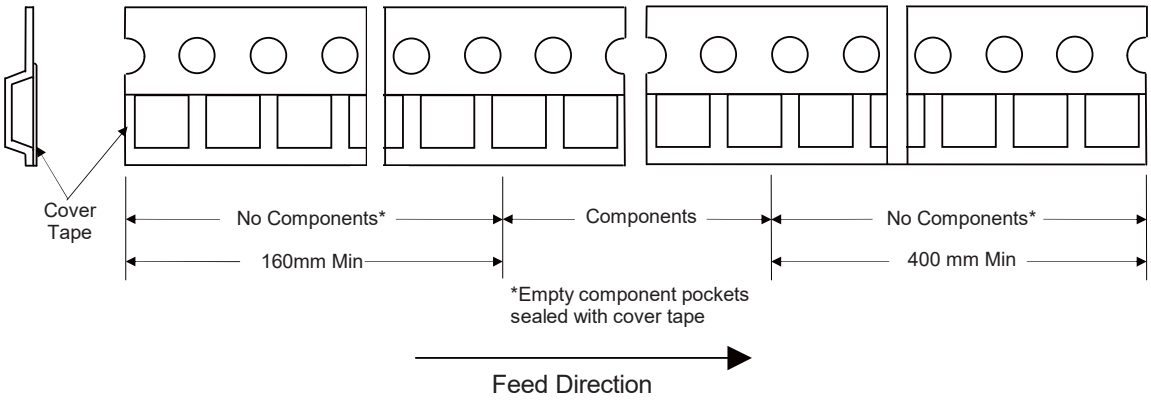
Tape Size	R Min.
12mm	30mm



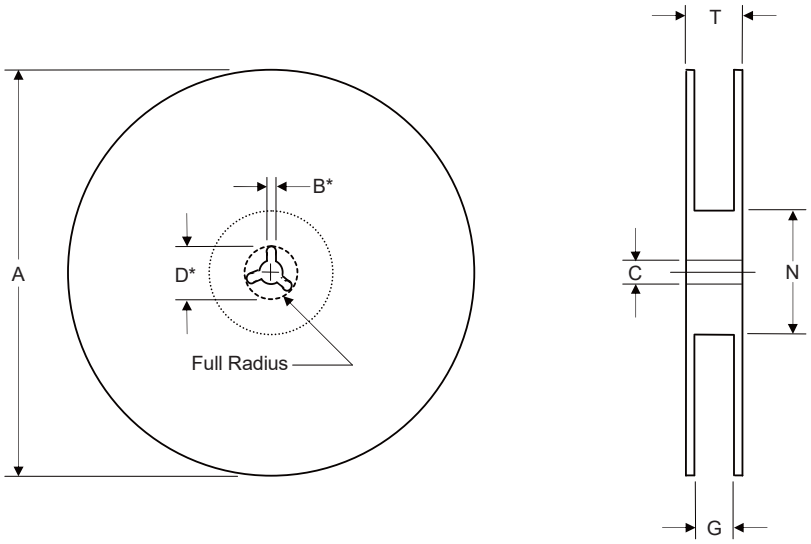
Camber (Top View)

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

Start and Finish Specification



Surface Mount Reel Specifictions

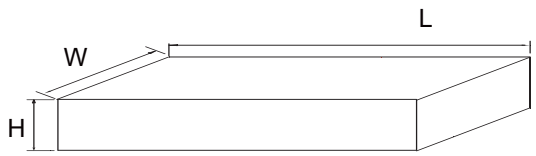


* Drive spoke dimensions optional. If drive spoke is used then asterisked dimensions apply.

Tape Width	A	B	C	D	N	G	T
12mm	330	1.5	13.0	20.2	55	12.4	18.4
(Tolerance)	Max	Min	±0.2	Min	±5.0	＋2.0	Max

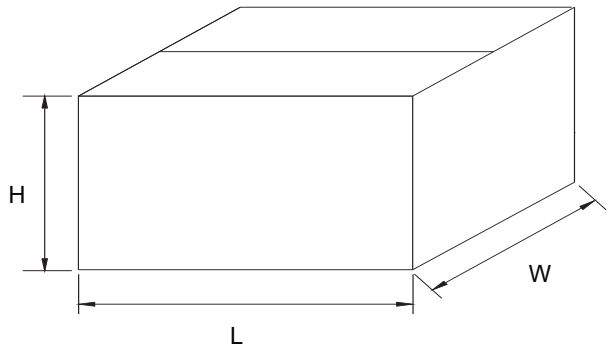
Dimensions

Inbox Size



Description	Dimension	Specification(mm typical)
Length	L	370
Width	W	340
Height	H	55

Carton Size



Description	Dimension	Specification(mm typical)
Length	L	385
Width	W	365
Height	H	315