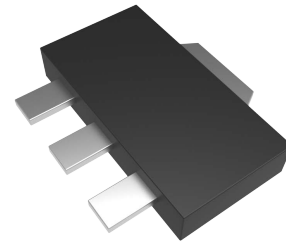


**Mechanical Data**

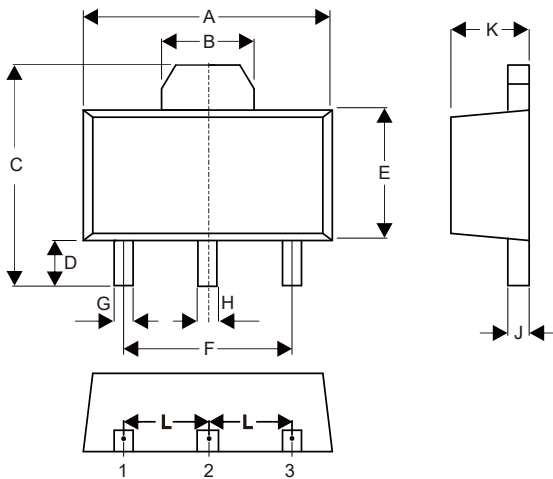
- Surface Mount Package
- Weight: 0.045 grams (Approximate)
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note2) ("P" Suffix Designates RoHS Compliant. See Ordering Information)



**Package 3D Photo**

Note:1. free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.  
2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

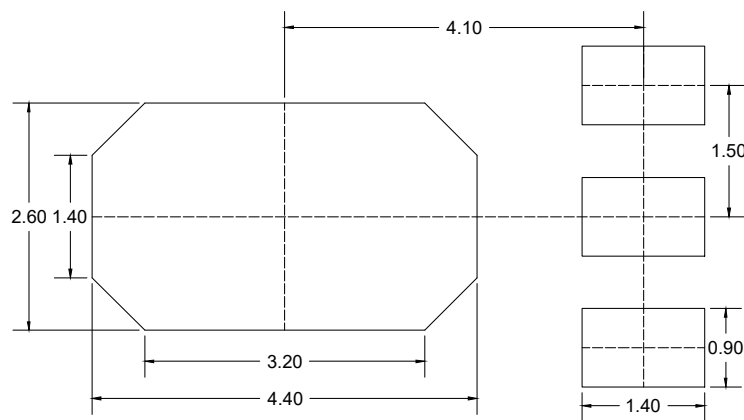
**Package Outline Dimensions**



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.169	0.185	4.30	4.70	
B	0.061		1.55		TYP.
C	0.154	0.171	3.91	4.35	
D	0.031	0.047	0.80	1.20	
E	0.089	0.104	2.25	2.65	
F	0.118		3.00		TYP.
G	0.013	0.020	0.33	0.52	
H	0.015	0.021	0.38	0.53	
J	0.014	0.017	0.35	0.44	
K	0.055	0.063	1.40	1.60	
L	0.059		1.50		TYP.

**Suggested Solder Pad Layout**

Unit:mm



Notes:

- 1.The suggested land pattern dimensions have been provided for reference only.
- 2.For further information,please reference document IPC-7351A.

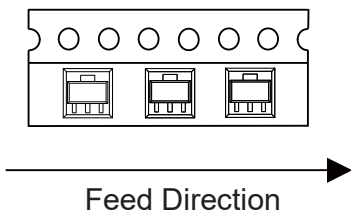
### Packing Quantity

Package	Tape Width (mm)	Reel Size (inch)	Reel Quantity	BOX Quantity	Carton Quantity
SOT-89	12	7	1000	8K	32K

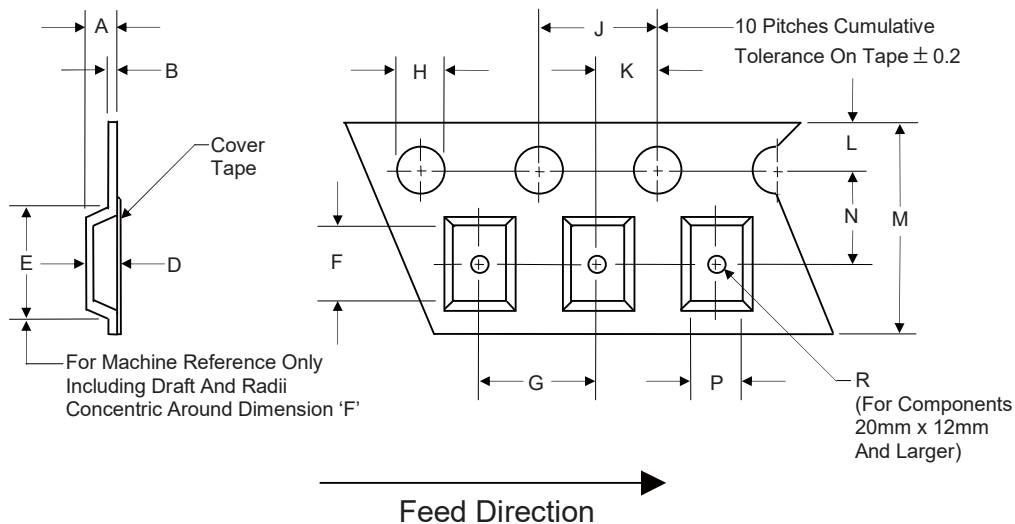
Note 1: These are minimum package quantities only. Minimum orders will differ. Contact the factory for more information on minimum order quantities.

Note 2: MCC Tape&reel products meets EIA-481 REV D specification.

### Device Tape Orientation

Package	Tape Width (mm)	Tape Orientation
SOT-89	12	

### Embossed Carrier Tape Specifications



Tape Width	H	L	J	B	D	F	P
12mm	1.5	1.75	4.0	0.6	See Note 3		
(Tolerance)	+0.1/-0	±0.1	±0.1	Max			

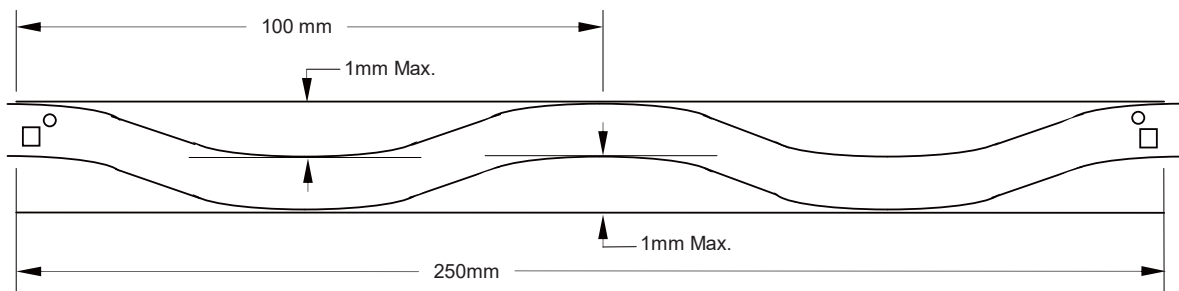
Tape Width	E	R	N	A	K	M	G
12mm	8.2	1.5	5.5	4.5	2.0	12.0	8.0
(Tolerance)	Max	Min	±0.05	Max	±0.05	±0.3	±0.1

Note 3: D,E,F are determined by constant size. The clearance between the part and the tape cavity must be within 0.05mm min. to 0.65mm max. for 12mm tape.

## Embossed Carrier Tape Specifications

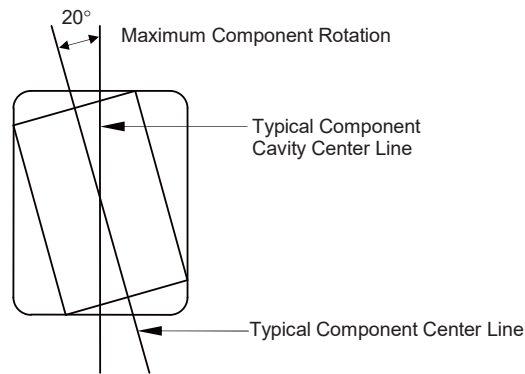


Tape Size	R Min.
12mm	30mm

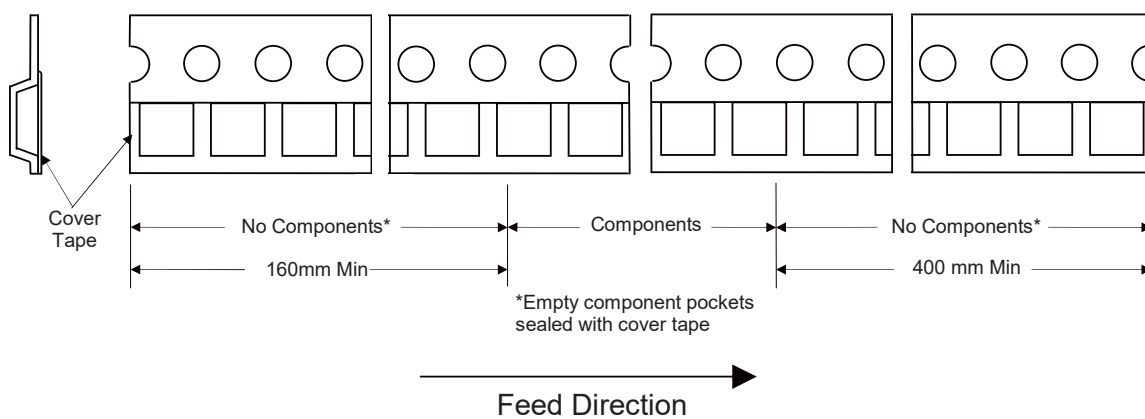


Camber (Top View)

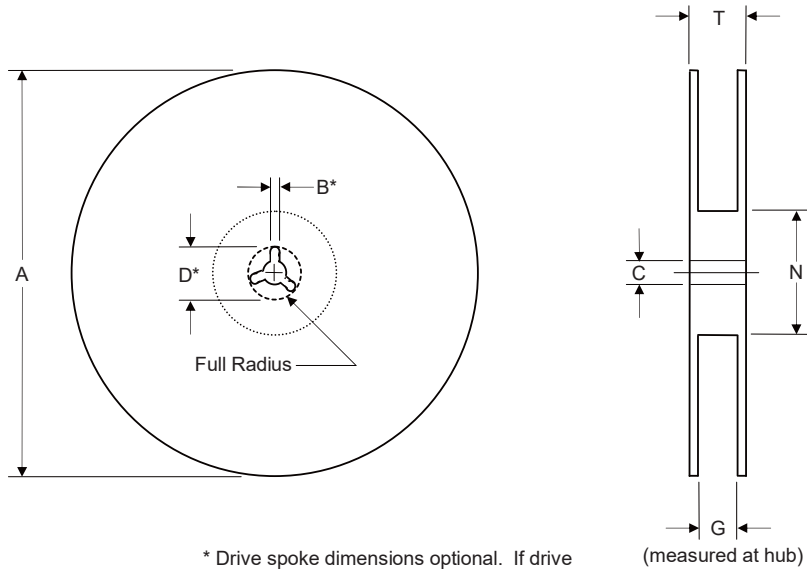
Allowable camber to be 1mm/100mm non-accumulative over 250mm



## Start and Finish Specification



**Surface Mount Reel Specifications**

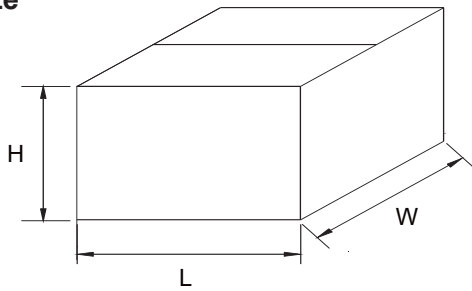


\* Drive spoke dimensions optional. If drive spoke is used then asterisked dimensions apply.

Tape Width	A	B	C	D	N	G	T
8mm	180	1.5	13.0	20.2	55	12.4	18.4
(Tolerance)	Max	Min	±0.2	Min	±5.0	+2.0	Max

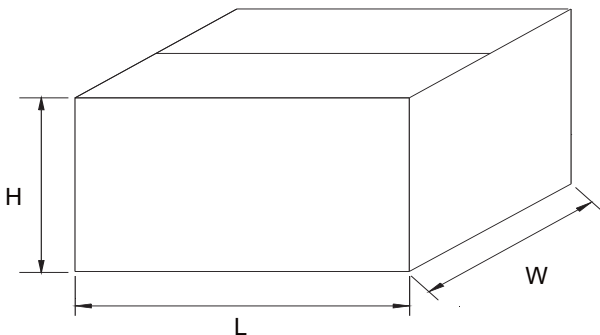
**Dimensions**

**Inbox Size**



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