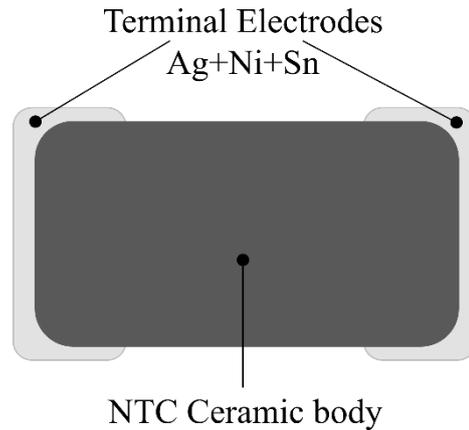
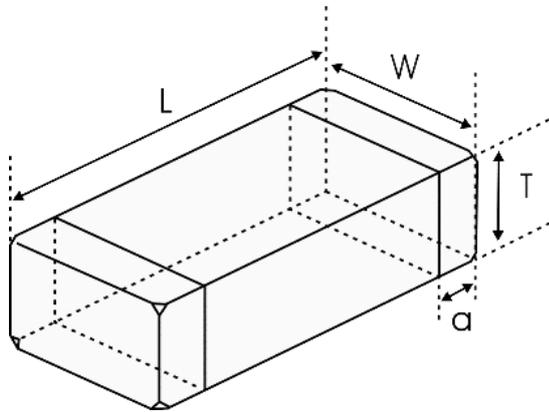


## 1. Shape & Dimensions & Components



Unit: mm

Type	L	W	T	a
0402	1.0±0.05	0.5±0.05	0.5±0.05	0.25±0.1

## 2. Identification (Part Number)

MCN    0402    X    103    F    3950    F    B  
 ①            ②            ③            ④            ⑤            ⑥            ⑦            ⑧

① Type	
MCN	Minci SMD NTC thermistor

② Chip dimension code (mm) (L×W×T)	
0402[1005]	1.00×0.50×0.50

③ Delimiter	
X	

④ Nominal Zero-Power Resistance at 25°C	
103	10kΩ
104	100kΩ

⑤ Tolerance of Resistance	
F	±1%
G	±2%
H	±3%
J	±5%

⑥ B Constant	
3435	3435K
3950	3950K
4250	4250K

⑦ Tolerance of B Constant	
F	±1%
H	±3%

⑧ B constant calculation method	
A	25°C&85°C
B	25°C&50°C

### 3. Electrical properties (In static air)

Part No.	R25 (kΩ)	B constant (25/50°C) (K)	B constant (25/85°C) (K)	Permissible Operating Current (25°C) (mA)	Rated Electric Power(25°C) (mW)	Dissipation Factor (mW/°C)	Thermal Time Constant (s)
MCN0402X202□3300FB	2.0	3300	3350	0.70	100	1.0	<3
MCN0402X472□3380FB	4.7	3380±1%	3435	0.46			
MCN0402X472□3500FB	4.7	3500±1%	3545	0.46			
MCN0402X502□3380FB	5.0	3380±1%	3435	0.44			
MCN0402X502□3500FB	5.0	3500±1%	3545	0.44			
MCN0402X682□3600FB	6.8	3600±1%	3660	0.38			
MCN0402X812□3750FB	8.1	3750±1%	3780	0.35			
MCN0402X103D3380EB	10±0.5%	3380±0.7%	3435	0.31			
MCN0402X103D3380FB	10±0.5%	3380±1%	3435	0.31			
MCN0402X103□3380FB	10	3380±1%	3435	0.31			
MCN0402X103D3435EA	10±0.5%	3380	3435±0.7%	0.31			
MCN0402X103D3435FA	10±0.5%	3380	3435±1%	0.31			
MCN0402X103□3435FA	10	3380	3435±1%	0.31			
MCN0402X103□3450FB	10	3450±1%	3500	0.31			
MCN0402X103□3900FB	10	3900±1%	3935	0.31			
MCN0402X103□3950FB	10	3950±1%	3990	0.31			
MCN0402X103□4050FB	10	4050±1%	4110	0.31			
MCN0402X153□3950FB	15	3950±1%	3990	0.25			
MCN0402X203□3950FB	20	3950±1%	3990	0.21			
MCN0402X223□3950FB	22	3950±1%	3990	0.21			
MCN0402X223□4050FB	22	4050±1%	4110	0.21			
MCN0402X303□3950FB	30	3950±1%	3990	0.17			

Part No.	R25 (kΩ)	B constant (25/50°C) (K)	B constant (25/85°C) (K)	Permissible Operating Current (25°C) (mA)	Rated Electric Power(25°C) (mW)	Dissipation Factor (mW/°C)	Thermal Time Constant (s)
MCN0402X303□4050FB	30	4050±1%	4110	0.17	100	1.0	<3
MCN0402X333□3950FB	33	3950±1%	3990	0.17			
MCN0402X333□4050FB	33	4050±1%	4110	0.17			
MCN0402X473□3380FB	47	3380±1%	3435	0.14			
MCN0402X473□3950FB	47	3950±1%	3990	0.14			
MCN0402X473D4050DB	47±0.5%	4050±0.5%	4110	0.14			
MCN0402X473D4050FB	47±0.5%	4050±1%	4110	0.14			
MCN0402X473□4050FB	47	4050±1%	4110	0.14			
MCN0402X473□4108FA	47	4050	4110±1%	0.14			
MCN0402X493□3380FB	49	3380±1%	3435	0.14			
MCN0402X493□3937FB	49	3937±1%	3980	0.14			
MCN0402X493□3950FB	49	3950±1%	3990	0.14			
MCN0402X503□3380FB	50	3380±1%	3435	0.14			
MCN0402X503□3937FB	50	3937±1%	3980	0.14			
MCN0402X503□3950FB	50	3950±1%	3990	0.14			
MCN0402X503□4050FB	50	4050±1%	4110	0.14			
MCN0402X563□3380FB	56	3380±1%	3435	0.13			
MCN0402X563□3450FB	56	3450±1%	3500	0.13			
MCN0402X683□3380FB	68	3380±1%	3435	0.12			
MCN0402X683□3450FB	68	3450±1%	3500	0.12			
MCN0402X683□4000FB	68	4000±1%	4060	0.12			
MCN0402X683□4150FB	68	4150±1%	4210	0.12			
MCN0402X104□3380FB	100	3380±1%	3435	0.10			

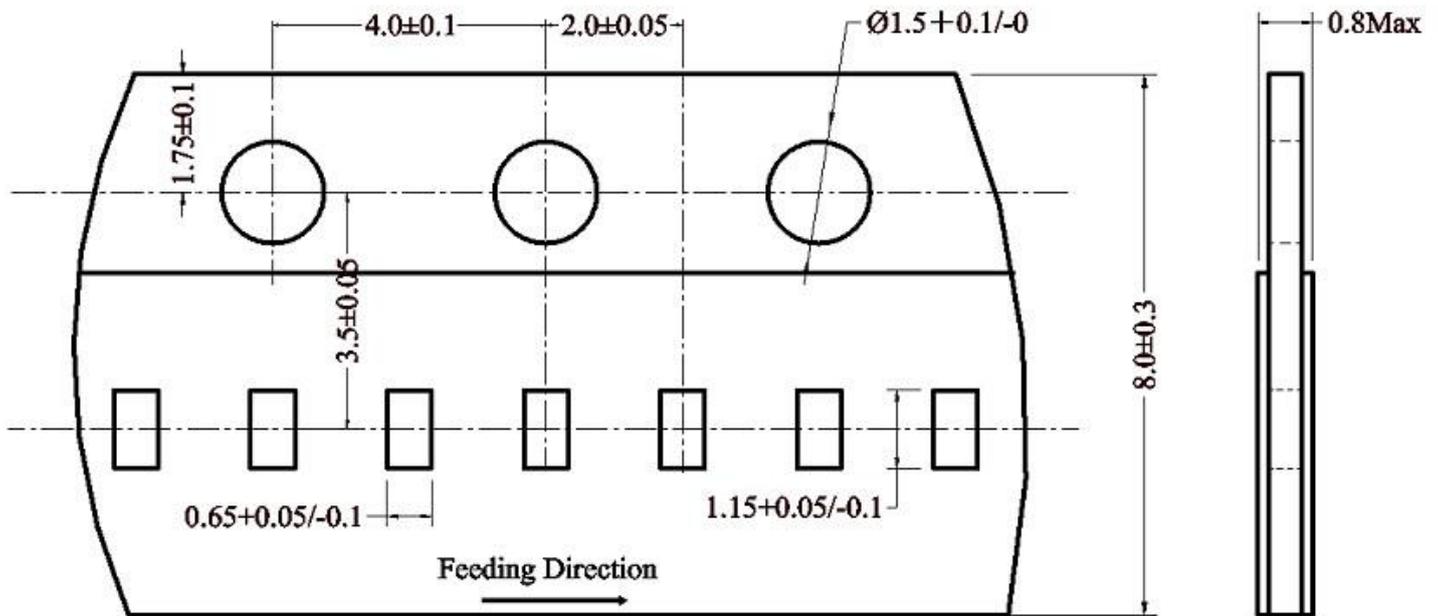
Part No.	R25 (kΩ)	B constant (25/50°C) (K)	B constant (25/85°C) (K)	Permissible Operating Current (25°C) (mA)	Rated Electric Power(25°C) (mW)	Dissipation Factor (mW/°C)	Thermal Time Constant (s)
MCN0402X104□3950FB	100	3950±1%	4010	0.10	100	1.0	<3
MCN0402X104□3975FA	100	3935	3975±1%	0.10			
MCN0402X104□4050FB	100	4050±1%	4110	0.10			
MCN0402X104□4100FB	100	4100±1%	4160	0.10			
MCN0402X104□4150FB	100	4150±1%	4210	0.10			
MCN0402X104D4250DB	100±0.5%	4250±0.5%	4310	0.10			
MCN0402X104D4250FB	100±0.5%	4250±1%	4310	0.10			
MCN0402X104□4250FB	100	4250±1%	4310	0.10			
MCN0402X104□4310FA	100	4250	4310±1%	0.10			
MCN0402X104□4360FB	100	4360±1%	4375	0.10			
MCN0402X104□4485FB	100	4485±1%	4500	0.10			
MCN0402X154□3950FB	150	3950±1%	4010	0.08			
MCN0402X154□4250FB	150	4250±1%	4310	0.08			
MCN0402X154□4500FB	150	4500±1%	4510	0.08			
MCN0402X204□3950FB	200	3950±1%	4010	0.07			
MCN0402X204□4250FB	200	4250±1%	4310	0.07			
MCN0402X224□3950FB	220	3950±1%	4010	0.06			
MCN0402X224□4250FB	220	4250±1%	4310	0.06			
MCN0402X224□4500FB	220	4500±1%	4510	0.06			
MCN0402X224□4700FB	220	4700±1%	4715	0.06			
MCN0402X334□3950FB	330	3950±1%	4010	0.05			
MCN0402X334□4500FB	330	4500±1%	4510	0.05			
MCN0402X474□3950FB	470	3950±1%	4010	0.04			

Part No.	R25 (kΩ)	B constant (25/50°C) (K)	B constant (25/85°C) (K)	Permissible Operating Current (25°C) (mA)	Rated Electric Power(25°C) (mW)	Dissipation Factor (mW/°C)	Thermal Time Constant (s)
MCN0402X474□4050FA	470	3990	4050±1%	0.04	100	1.0	<3
MCN0402X474□4100FB	470	4100±1%	4160	0.04			
MCN0402X474□4500FB	470	4500±1%	4510	0.04			
MCN0402X474□4700FA	470	4685	4700±1%	0.04			
MCN0402X684□4050FA	680	3990	4050±1%	0.03			
MCN0402X684□4500FB	680	4500±1%	4510	0.03			
MCN0402X135□4500FB	1300	4500±1%	4510	0.02			

\* □ Please specify the tolerance of resistance (F=±1%, G=±2%, H=±3%, J=±5%)

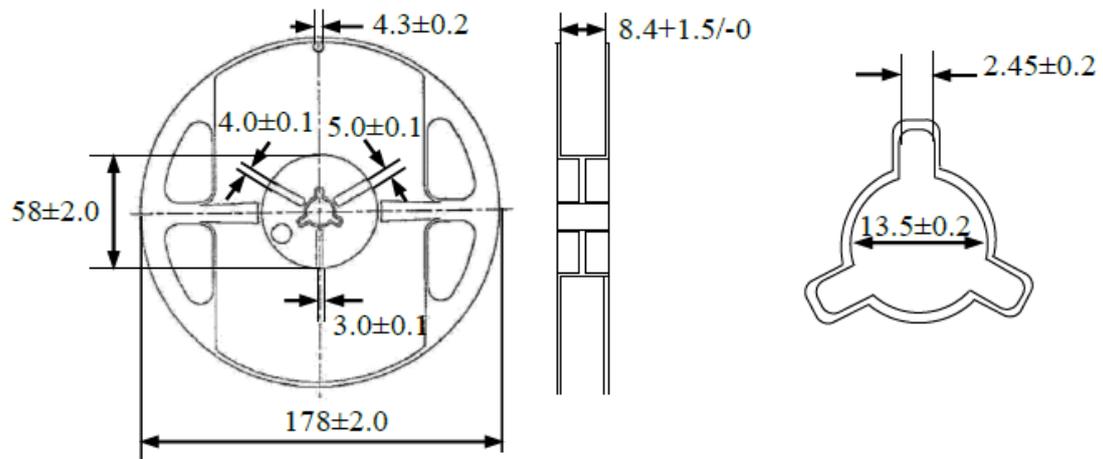
## 4. Taping and Packaging

### 4.1 Paper tape Dimensions



Unit: mm

## 4.2 Reel Dimensions



Unit: mm

Size (EIA)	Quantity
0402	10000pcs/ Reel