

FEATURES

- SIZES 0806, 1008 & 1210 SIZES
- HIGH CURRENT AND LOW DCR CHARACTERISTICS
- REFLOW SOLDERABLE
- PACKAGE ON TAPE & REEL FOR AUTOMATIC PICK-PLACE



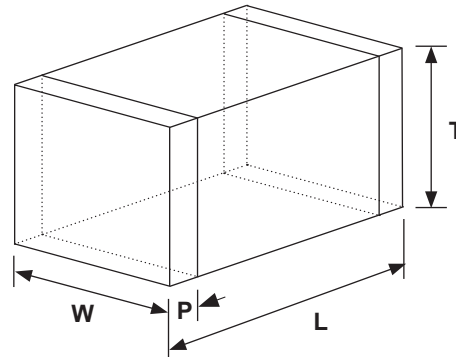
SPECIFICATIONS

Case Code	0806	1008	1210
Inductance Range (μH)	0.24 ~ 2.2	0.24 ~ 2.2	0.47 ~ 2.2
Operating Temperature Range	-40°C ~ +125°C (Including Self-Heating)		
Inductance Tolerance	±20% (M)		
Test Conditions	0.2V @ 2MHZ		

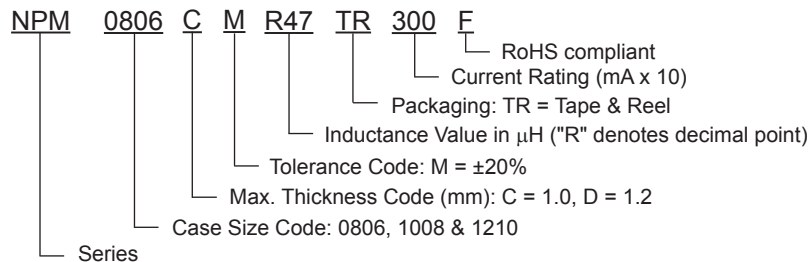
DIMENSIONS (mm)

Case Size	L	W	T*	P
0806	2.00±0.20	1.60±0.20	1.20 max.	0.50±0.30
1008	2.50±0.20	2.00±0.20	1.20 max.	0.60±0.30
1210	3.20±0.30	2.50±0.30	1.20 max.	0.50±0.30

*See specifications tables for individual part number maximum thickness dimension.



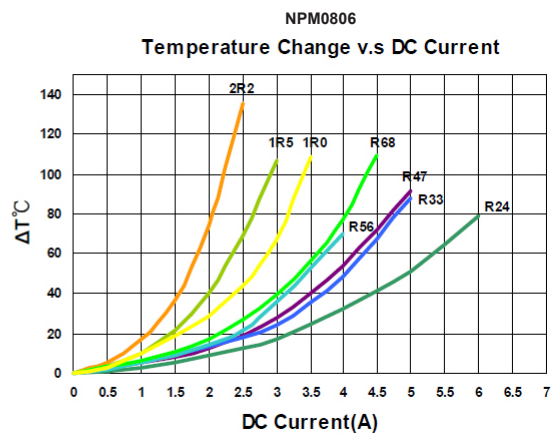
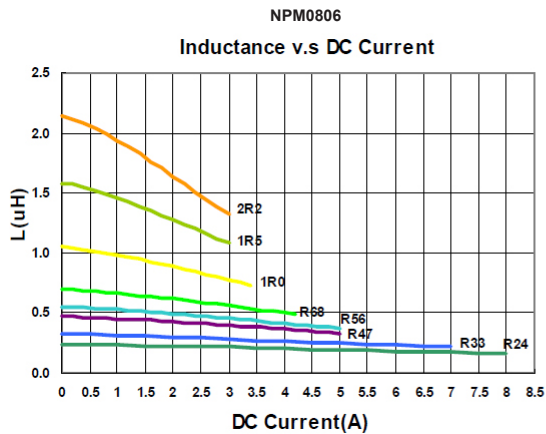
PART NUMBER SYSTEM



NPM SERIES 0806 CASE SIZE STANDARD VALUES & SPECIFICATIONS

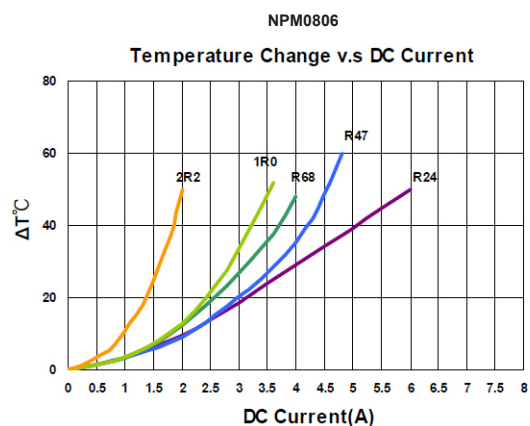
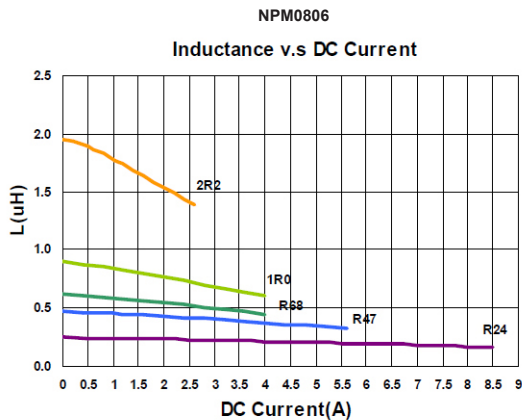
NIC P/N	Inductance (nH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (mA)*	Irms Current Max. (mA)*	Maximum Thickness (mm)	Reel Quantity
NPM0806CMR24TR400F	0.24	±20% (M)	40	4.2	4.0	1.0	3,000
NPM0806CMR33TR350F	0.33	±20% (M)	48	4.0	3.5	1.0	3,000
NPM0806CMR47TR300F	0.47	±20% (M)	54	3.2	3.0	1.0	3,000
NPM0806CMR56TR280F	0.56	±20% (M)	59	2.8	2.8	1.0	3,000
NPM0806CMR68TR240F	0.68	±20% (M)	72	2.7	2.4	1.0	3,000
NPM0806CM1R0TR200F	1.0	±20% (M)	96	2.2	2.0	1.0	3,000
NPM0806CM1R5TR160F	1.5	±20% (M)	150	2.1	1.6	1.0	3,000
NPM0806CM2R2TR130F	2.2	±20% (M)	204	2.0	1.3	1.0	3,000

*Irms ΔT+40°C max., Isat ΔL -30% max. @ 25°C



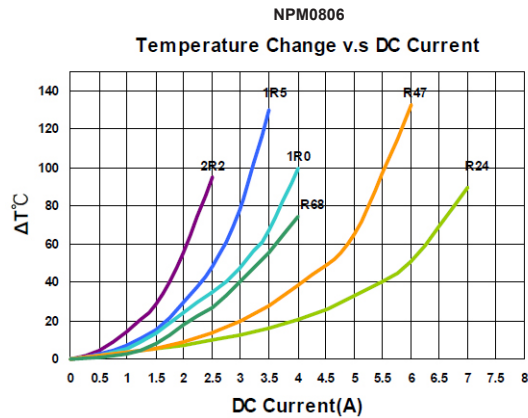
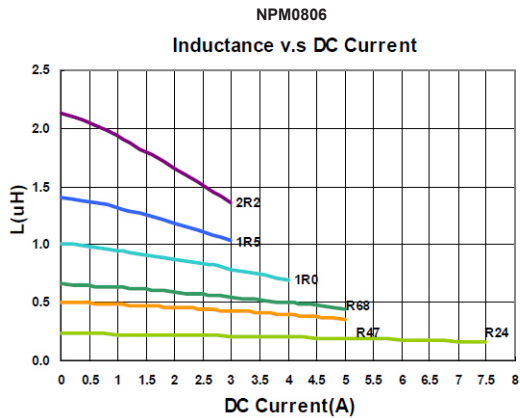
NPM SERIES 0806 CASE SIZE STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (nH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (mA)*	Irms Current Max. (mA)*	Maximum Thickness (mm)	Reel Quantity
NPM0806CMR24TR380F	0.24	±20% (M)	30	5.0	3.8	1.0	3,000
NPM0806CMR47TR290F	0.47	±20% (M)	41	4.0	2.9	1.0	3,000
NPM0806CMR68TR250F	0.68	±20% (M)	53	3.3	2.5	1.0	3,000
NPM0806CM1R0TR220F	1.0	±20% (M)	72	2.8	2.2	1.0	3,000
NPM0806CM2R2TR150F	2.2	±20% (M)	170	1.8	1.5	1.0	3,000



NPM SERIES 0806 CASE SIZE STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (nH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (mA)*	Irms Current Max. (mA)*	Maximum Thickness (mm)	Reel Quantity
NPM0806DMR24TR420F	0.24	±20% (M)	35	5.5	4.2	1.2	3,000
NPM0806DMR47TR320F	0.47	±20% (M)	52	3.8	3.2	1.2	3,000
NPM0806DMR68TR260F	0.68	±20% (M)	70	3.3	2.6	1.2	3,000
NPM0806DM1R0TR230F	1.0	±20% (M)	82	3.1	2.3	1.2	3,000
NPM0806DM1R5TR220F	1.5	±20% (M)	120	2.6	2.2	1.2	3,000
NPM0806DM2R2TR130F	2.2	±20% (M)	195	2.0	1.3	1.2	3,000

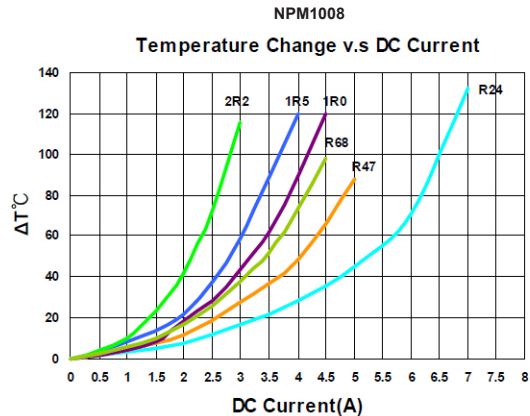
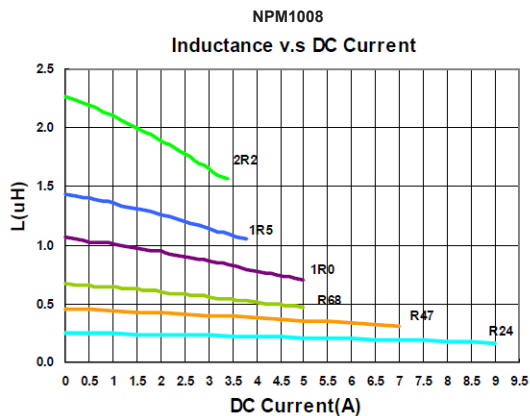


NPM SERIES 1008 CASE SIZE STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (nH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (mA)*	Irms Current Max. (mA)*	Maximum Thickness (mm)	Reel Quantity
NPM1008CMR24TR450F	0.24	±20% (M)	40	7.5	4.5	1.0	3,000
NPM1008CMR47TR310F	0.47	±20% (M)	46	5.2	3.1	1.0	3,000
NPM1008CMR68TR290F	0.68	±20% (M)	65	3.8	2.9	1.0	3,000
NPM1008CM1R0TR250F	1.0	±20% (M)	78	3.4	2.5	1.0	3,000
NPM1008CM1R5TR220F	1.5	±20% (M)	105	3.2	2.2	1.0	3,000
NPM1008CM2R2TR140F	2.2	±20% (M)	156	2.6	1.4	1.0	3,000

*Irms $\Delta T + 40^{\circ}\text{C}$ max., Isat $\Delta L - 30\%$ max. @ 25°C

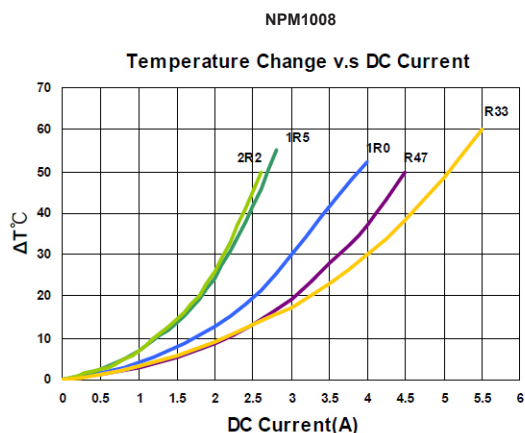
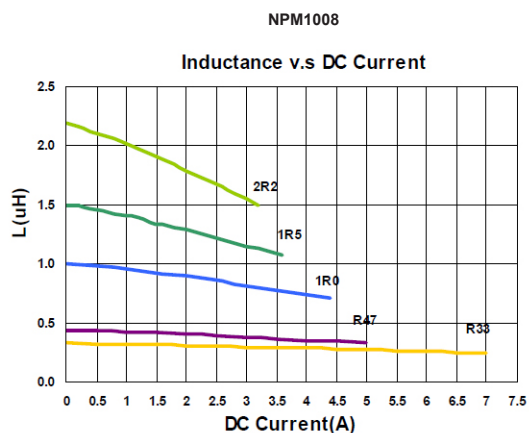
Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.



NPM SERIES 1008 CASE SIZE STANDARD VALUES & SPECIFICATIONS

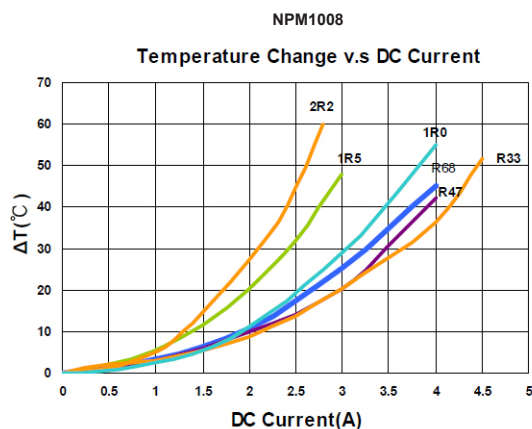
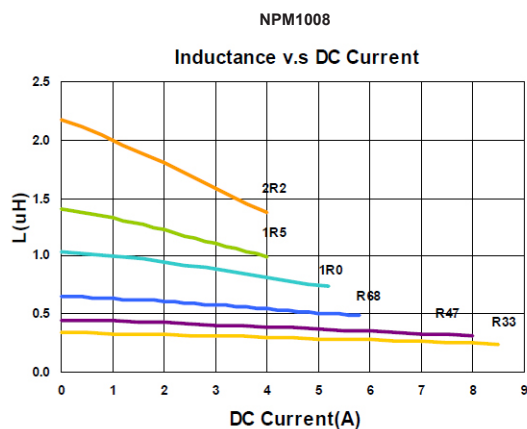
NIC P/N	Inductance (nH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (mA)*	Irms Current Max. (mA)*	Maximum Thickness (mm)	Reel Quantity
NPM1008CMR33TR380F	0.33	±20% (M)	31	5.0	3.8	1.0	3,000
NPM1008CMR47TR340F	0.47	±20% (M)	35	4.2	3.4	1.0	3,000
NPM1008CMR68TR300F	0.68	±20% (M)	48	3.7	3.0	1.0	3,000
NPM1008CM1R0TR260F	1.0	±20% (M)	65	3.2	2.6	1.0	3,000
NPM1008CM1R5TR210F	1.5	±20% (M)	94	2.9	2.1	1.0	3,000
NPM1008CM2R2TR180F	2.2	±20% (M)	120	2.3	1.8	1.0	3,000

*Irms $\Delta T + 40^\circ\text{C}$ max., Isat $\Delta L - 30\%$ max. @ 25°C



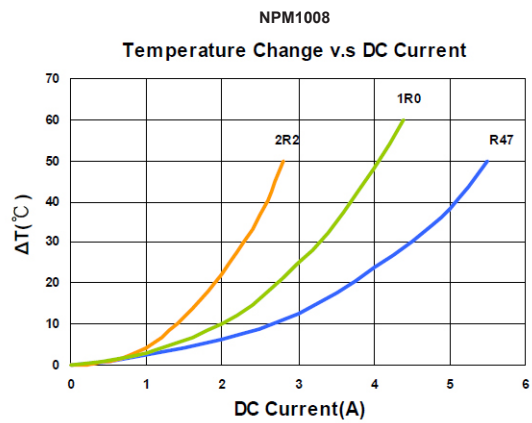
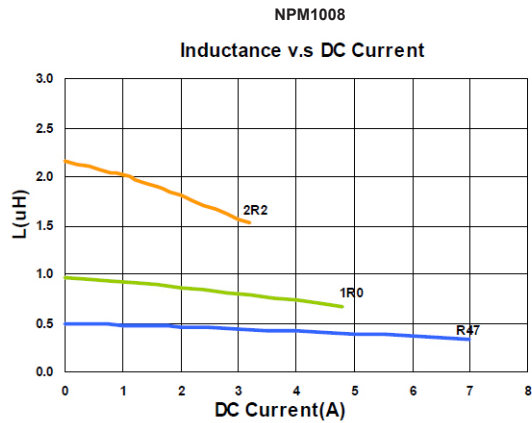
NPM SERIES 1008 CASE SIZE STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (nH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (mA)*	Irms Current Max. (mA)*	Maximum Thickness (mm)	Reel Quantity
NPM1008DMR33TR400F	0.33	±20% (M)	35	6.8	4.0	1.2	3,000
NPM1008DMR47TR370F	0.47	±20% (M)	39	6.2	3.7	1.2	3,000
NPM1008DMR68TR330F	0.68	±20% (M)	46	5.5	3.3	1.2	3,000
NPM1008DM1R0TR300F	1.0	±20% (M)	59	4.0	3.0	1.2	3,000
NPM1008DM1R5TR250F	1.5	±20% (M)	70	3.4	2.5	1.2	3,000
NPM1008DM2R2TR200F	2.2	±20% (M)	115	3.3	2.0	1.2	3,000



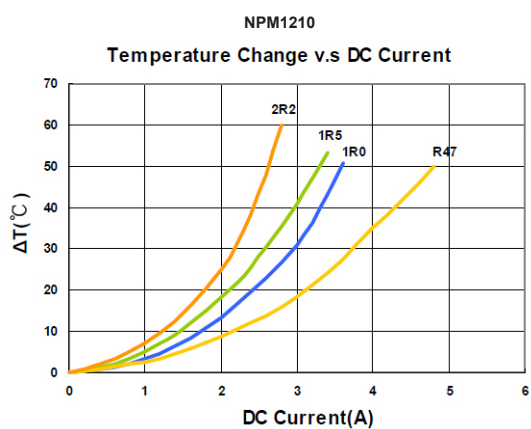
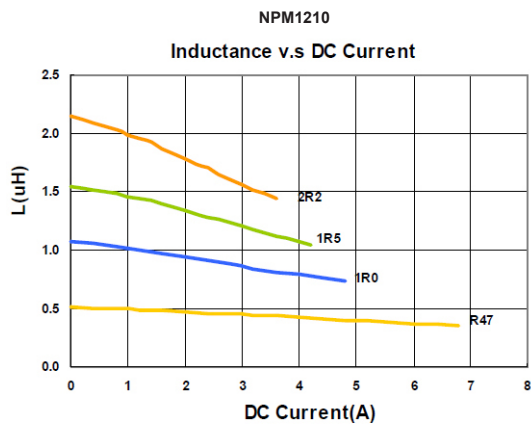
NPM SERIES 1008 CASE SIZE STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (nH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (mA)*	Irms Current Max. (mA)*	Maximum Thickness (mm)	Reel Quantity
NPM1008DMR47TR410F	0.47	±20% (M)	34	5.2	4.1	1.2	3,000
NPM1008DM1R0TR320F	1.0	±20% (M)	56	3.6	3.2	1.2	3,000
NPM1008DM2R2TR220F	2.2	±20% (M)	102	2.5	2.2	1.2	3,000



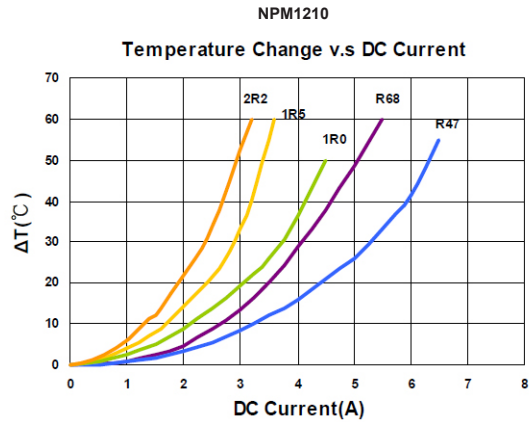
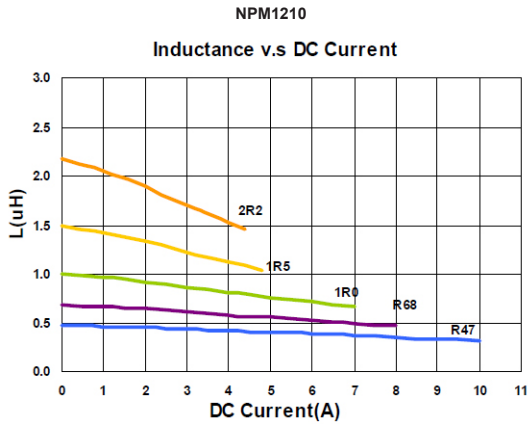
NPM SERIES 1210 CASE SIZE STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (nH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (mA)*	Irms Current Max. (mA)*	Maximum Thickness (mm)	Reel Quantity
NPM1210CMR47TR360F	0.47	±20% (M)	37	5.8	3.6	1.0	3,000
NPM1210CM1R0TR300F	1.0	±20% (M)	56	4.0	3.0	1.0	3,000
NPM1210CM1R5TR260F	1.5	±20% (M)	75	3.4	2.6	1.0	3,000
NPM1210CM2R2TR220F	2.2	±20% (M)	108	2.7	2.2	1.0	3,000

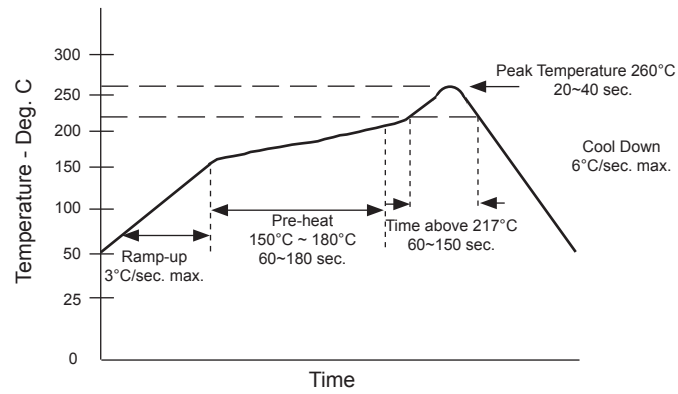


NPM SERIES 1210 CASE SIZE STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (nH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (mA)*	Irms Current Max. (mA)*	Maximum Thickness (mm)	Reel Quantity
NPM1210DMR47TR500F	0.47	±20% (M)	27	8.0	5.0	1.2	3,000
NPM1210DMR68TR400F	0.68	±20% (M)	34	6.3	4.0	1.2	3,000
NPM1210DM1R0TR380F	1.0	±20% (M)	42	5.8	3.8	1.2	3,000
NPM1210DM1R5TR280F	1.5	±20% (M)	68	4.0	2.8	1.2	3,000
NPM1210DM2R2TR240F	2.2	±20% (M)	85	3.6	2.4	1.2	3,000



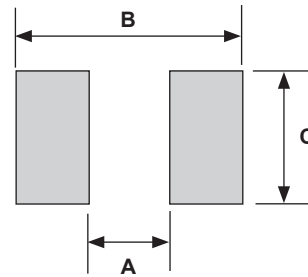
RECOMMENDED REFLOW SOLDERING PROFILE



RECOMMENDED LAND PATTERN DIMENSIONS

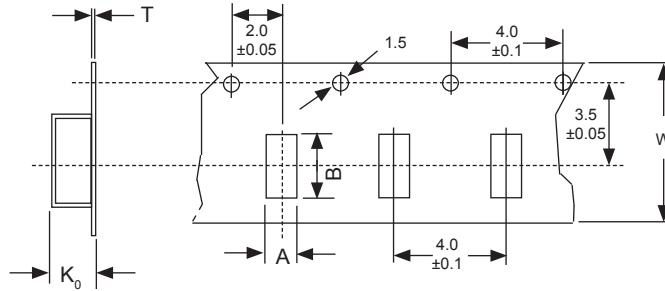
DIMENSIONS (mm)

Case Size	A	B	C
0806	0.7	2.3	1.8
1008	1.2	2.8	2.3
1210	1.7	3.5	2.8



EMBOSED PLASTIC CARRIER DIMENSIONS (mm)

Case Size	Max. Thickness	A	B	T	K_0	W	QTY/REEL
0806	1.0	1.80±0.1	2.20±0.1	0.22±0.05	1.15	8.0 ± 0.3	3,000
1008	1.0	2.25±0.1	2.80±0.1	0.22±0.05	1.15	8.0 ± 0.3	3,000
	1.2	2.25±0.1	2.80±0.1	0.22±0.05	1.35	8.0 ± 0.3	3,000
1210	1.0	2.80±0.1	3.55±0.1	0.23±0.05	1.20	8.0 ± 0.3	3,000
	1.2	2.80±0.1	3.50±0.1	0.23±0.05	1.34	8.0 ± 0.3	3,000



REEL DIMENSIONS (mm):

