

FEATURES

- SIZES 0603, 0805, 0806, 1008 & 1210 SIZES
- HIGH CURRENT AND LOW DCR CHARACTERISTICS
- REFLOW SOLDERABLE
- PACKAGE ON TAPE & REEL FOR AUTOMATIC PICK-PLACE



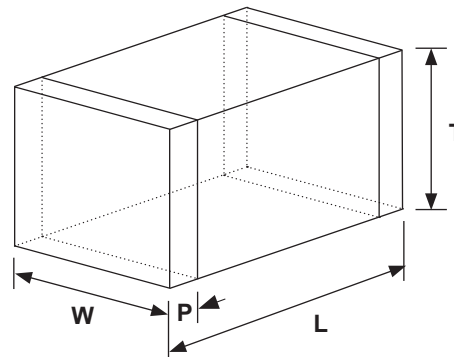
SPECIFICATIONS

Case Code	0603	0805	0806	1008	1210
Inductance Range (μ H)	0.24 ~ 0.47	0.24 ~ 2.2	0.24 ~ 2.2	0.24 ~ 2.2	0.24 ~ 2.2
Operating Temperature Range	-40°C ~ +125°C (Including Self-Heating)				
Inductance Tolerance	$\pm 20\%$ (M)				
Test Conditions	0.2V @ 2MHZ				

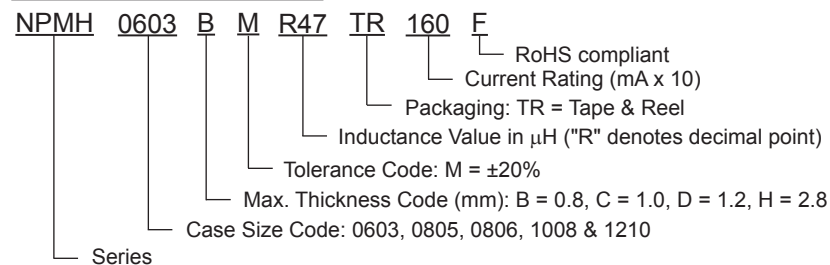
DIMENSIONS (mm)

Case Size	L	W	T*	P
0603	1.60 $\pm$ 0.20	0.80 $\pm$ 0.20	0.80 max.	0.30 $\pm$ 0.20
0805	2.00 $\pm$ 0.20	1.25 $\pm$ 0.20	1.00 max.	0.50 $\pm$ 0.30
0806	2.00 $\pm$ 0.20	1.60 $\pm$ 0.20	1.00 max.	0.50 $\pm$ 0.30
1008	2.50 $\pm$ 0.30	2.00 $\pm$ 0.30	1.20 max.	0.60 $\pm$ 0.30
1210	3.20 $\pm$ 0.30	2.50 $\pm$ 0.30	2.80 max.	0.50 $\pm$ 0.30

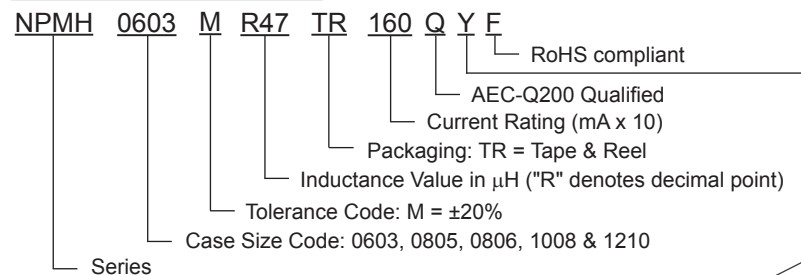
*See specifications tables for individual part number maximum thickness dimension.



PART NUMBER SYSTEM



PART NUMBER SYSTEM



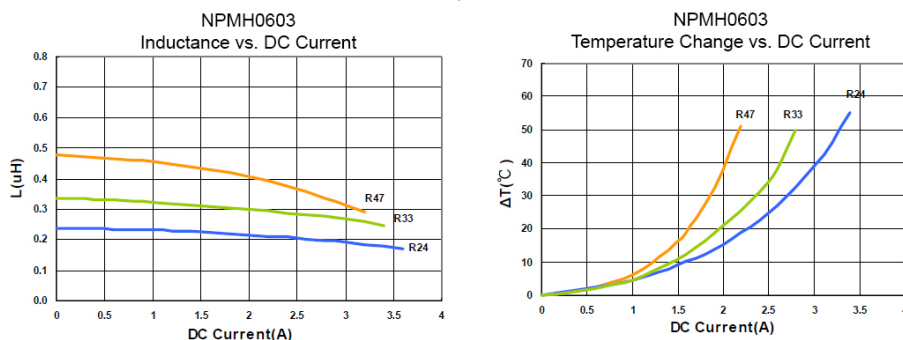
"Y" denotes suitable for automotive equipment, sourced to special production and inspection at TS-16949 certified production site

NPMH SERIES 0603 CASE SIZE (0.8mm thickness) STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (μH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (A)*	Irms Current Max. (A)*	Maximum Thickness (mm)	Reel Quantity
NPMH0603BMR24TR260F	0.24	±20% (M)	54	3.2	2.6	0.8	4,000
NPMH0603BMR33TR220F	0.33	±20% (M)	75	3.0	2.2	0.8	4,000
NPMH0603BMR47TR160F	0.47	±20% (M)	100	2.2	1.6	0.8	4,000

*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.

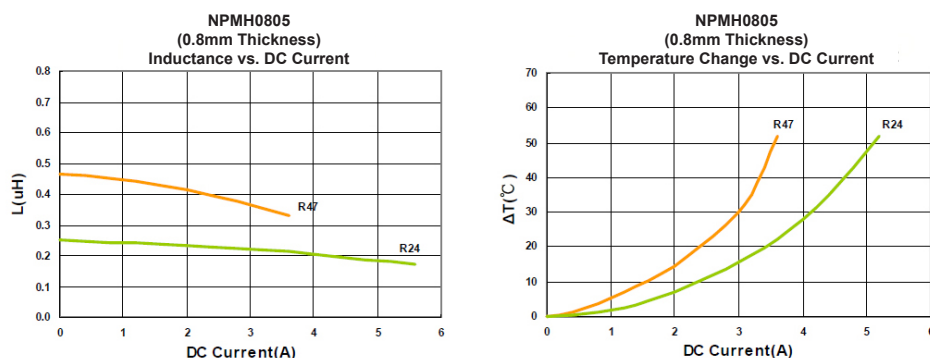


NPMH SERIES 0805 CASE SIZE (0.8mm thickness) STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (μH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (A)*	Irms Current Max. (A)*	Maximum Thickness (mm)	Reel Quantity
NPMH0805BMR24TR420F	0.24	±20% (M)	25	4.8	4.2	0.8	3,000
NPMH0805BMR47TR300F	0.47	±20% (M)	48	3.2	3.0	0.8	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.

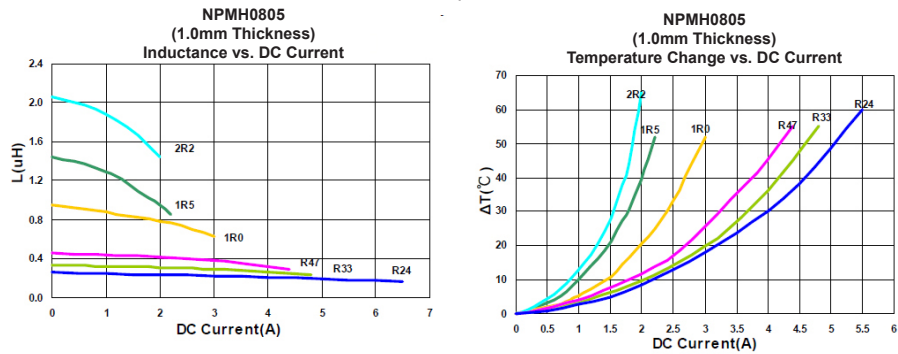


NPMH SERIES 0805 CASE SIZE (1.0mm thickness) STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (μH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (A)*	Irms Current Max. (A)*	Maximum Thickness (mm)	Reel Quantity
NPMH0805CMR24TR370F	0.24	±20% (M)	28	4.5	3.7	1.0	3,000
NPMH0805CMR33TR370F	0.33	±20% (M)	30	4.5	3.7	1.0	3,000
NPMH0805CMR47TR300F	0.47	±20% (M)	42	3.3	3.0	1.0	3,000
NPMH0805CM1R0TR220F	1.00	±20% (M)	78	2.3	2.2	1.0	3,000
NPMH0805CM1R5TR180F	1.50	±20% (M)	126	1.7	1.6	1.0	3,000
NPMH0805CM2R2TR140F	2.20	±20% (M)	176	1.6	1.4	1.0	3,000

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

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

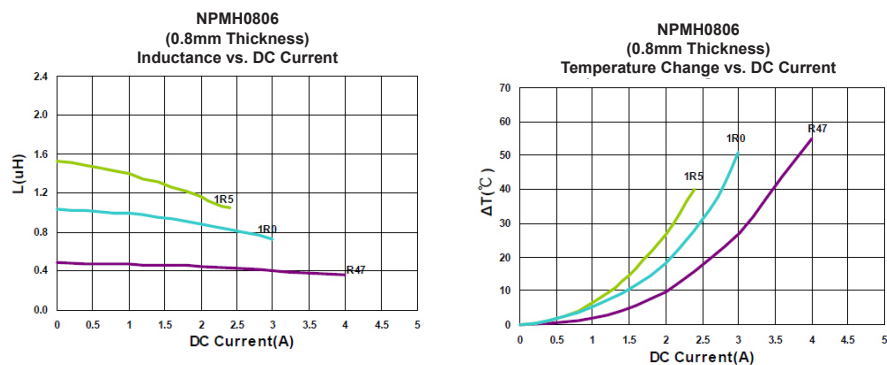


NPMH SERIES 0806 CASE SIZE (0.8mm thickness) STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (μH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (A)*	Irms Current Max. (A)*	Maximum Thickness (mm)	Reel Quantity
NPMH0806BMR47TR310F	0.47	±20% (M)	51	3.3	3.1	0.8	3,000
NPMH0806BM1R0TR230F	1.00	±20% (M)	87	2.5	2.3	0.8	3,000
NPMH0806BM1R5TR210F	1.50	±20% (M)	115	2.0	2.1	0.8	3,000

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

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

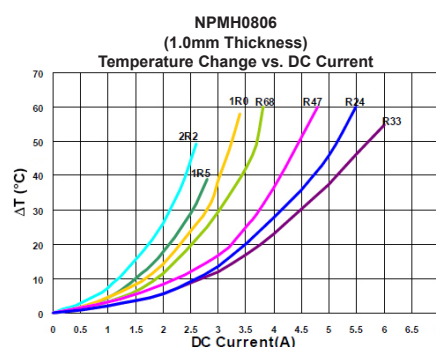
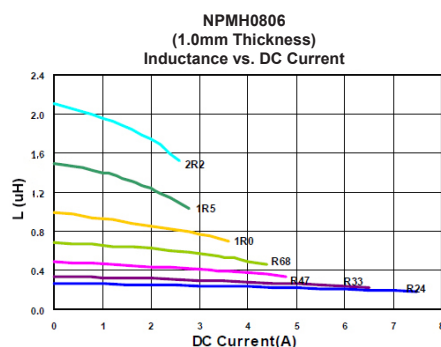


NPMH SERIES 0806 CASE SIZE (1.0mm thickness) STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (μH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (A)*	Irms Current Max. (A)*	Maximum Thickness (mm)	Reel Quantity
NPMH0806CMR24TR390F	0.24	±20% (M)	27	5.6	3.9	1.0	3,000
NPMH0806CMR33TR470F	0.33	±20% (M)	23	5.3	4.7	1.0	3,000
NPMH0806CMR47TR350F	0.47	±20% (M)	42	3.9	3.5	1.0	3,000
NPMH0806CMR68TR270F	0.68	±20% (M)	56	3.2	2.7	1.0	3,000
NPMH0806CM1R0TR250F	1.00	±20% (M)	65	2.9	2.5	1.0	3,000
NPMH0806CM1R5TR230F	1.50	±20% (M)	85	2.5	2.3	1.0	3,000
NPMH0806CM2R2TR180F	2.20	±20% (M)	135	2.4	1.8	1.0	3,000

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

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

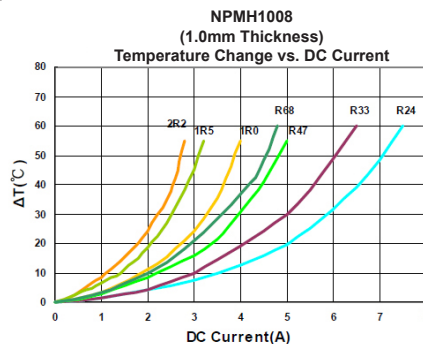
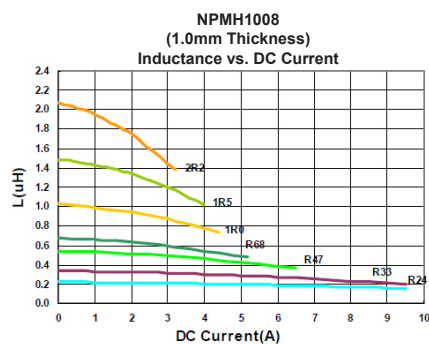


NPMH SERIES 1008 CASE SIZE (1.0mm thickness) STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (μH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (A)*	Irms Current Max. (A)*	Maximum Thickness (mm)	Reel Quantity
NPMH1008CMR24TR550F	0.24	±20% (M)	18	8.0	5.5	1.0	3,000
NPMH1008CMR33TR380F	0.33	±20% (M)	24	6.5	4.8	1.0	3,000
NPMH1008CMR47TR390F	0.47	±20% (M)	35	5.0	3.9	1.0	3,000
NPMH1008CMR68TR370F	0.68	±20% (M)	40	4.5	3.7	1.0	3,000
NPMH1008CM1R0TR300F	1.00	±20% (M)	53	3.7	3.0	1.0	3,000
NPMH1008CM1R5TR240F	1.50	±20% (M)	75	3.1	2.4	1.0	3,000
NPMH1008CM2R2TR220F	2.20	±20% (M)	105	2.5	2.2	1.0	3,000

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

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

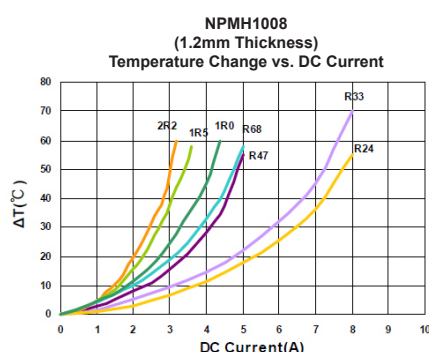
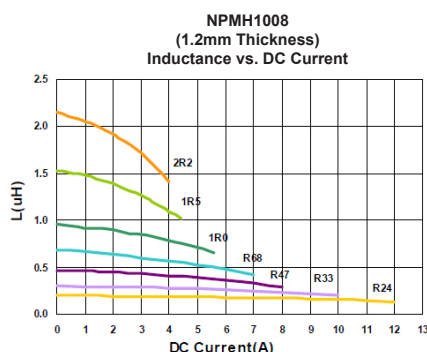


NPMH SERIES 1008 CASE SIZE (1.2mm thickness) STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (μH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (A)*	Irms Current Max. (A)*	Maximum Thickness (mm)	Reel Quantity
NPMH1008DMR24TR620F	0.24	±20% (M)	15	9.0	6.2	1.2	3,000
NPMH1008DMR33TR580F	0.33	±20% (M)	18	8.5	5.8	1.2	3,000
NPMH1008DMR47TR380F	0.47	±20% (M)	33	5.6	3.8	1.2	3,000
NPMH1008DMR68TR380F	0.68	±20% (M)	36	5.0	3.8	1.2	3,000
NPMH1008DM1R0TR360F	1.00	±20% (M)	42	4.4	3.6	1.2	3,000
NPMH1008DM1R5TR270F	1.50	±20% (M)	65	3.4	2.7	1.2	3,000
NPMH1008DM2R2TR250F	2.20	±20% (M)	83	3.0	2.5	1.2	3,000

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

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

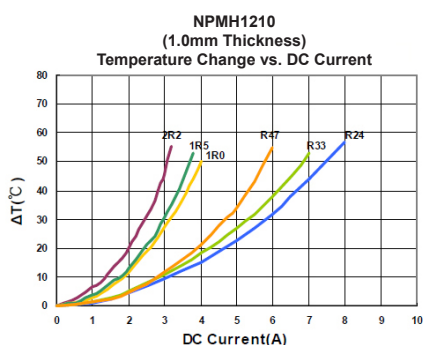
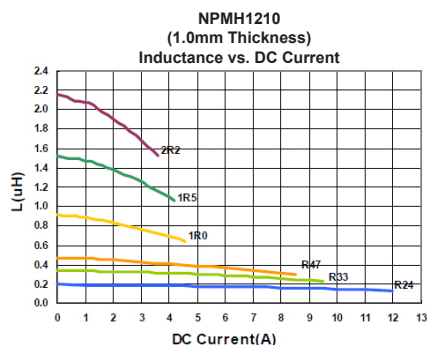


NPMH SERIES 1210 CASE SIZE (1.0mm thickness) STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (μH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (A)*	Irms Current Max. (A)*	Maximum Thickness (mm)	Reel Quantity
NPMH1210CMR24TR600F	0.24	±20% (M)	16	9.0	6.0	1.0	3,000
NPMH1210CMR33TR580F	0.33	±20% (M)	17	8.0	5.8	1.0	3,000
NPMH1210CMR47TR450F	0.47	±20% (M)	24	6.0	4.5	1.0	3,000
NPMH1210CM1R0TR330F	1.00	±20% (M)	46	4.1	3.3	1.0	3,000
NPMH1210CM1R5TR320F	1.50	±20% (M)	58	3.5	3.2	1.0	3,000
NPMH1210CM2R2TR250F	2.20	±20% (M)	85	3.0	2.5	1.0	3,000

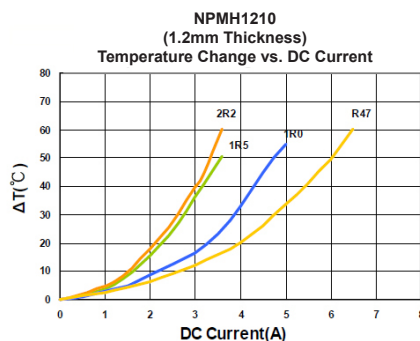
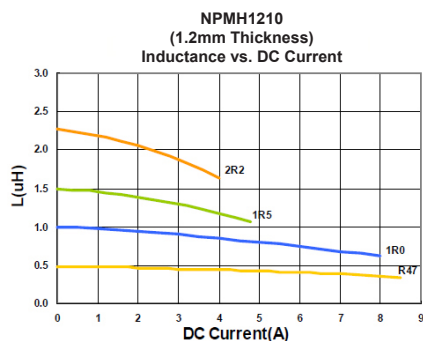
*Irms ΔT+40°C max., Isat ΔL -30% max. @ 25°C

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



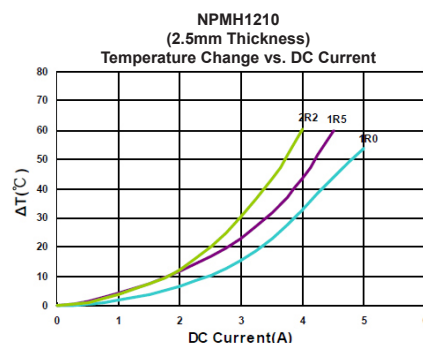
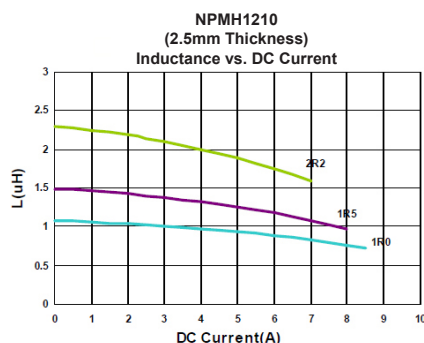
NPMH SERIES 1210 CASE SIZE (1.2mm thickness) STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (μH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (A)*	Irms Current Max. (A)*	Maximum Thickness (mm)	Reel Quantity
NPMH1210DMR47TR460F	0.47	±20% (M)	25	7.0	4.6	1.2	3,000
NPMH1210DM1R0TR370F	1.00	±20% (M)	34	5.7	3.7	1.2	3,000
NPMH1210DM1R5TR280F	1.50	±20% (M)	59	4.0	2.8	1.2	3,000
NPMH1210DM2R2TR270F	2.20	±20% (M)	73	3.5	2.7	1.2	3,000

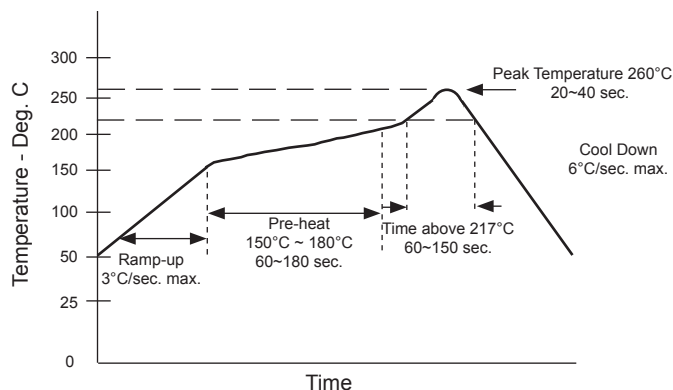


NPMH SERIES 1210 CASE SIZE (2.8mm thickness) STANDARD VALUES & SPECIFICATIONS

NIC P/N	Inductance (μH)	Tolerance	DC Resistance Max. (mOhms)	Isat Current Max. (A)*	Irms Current Max. (A)*	Maximum Thickness (mm)	Reel Quantity
NPMH1210HM1R0TR350F	1.00	±20% (M)	34	6.0	3.5	2.8	1,500
NPMH1210HM1R5TR320F	1.50	±20% (M)	45	5.5	3.2	2.8	1,500
NPMH1210HM2R2TR300F	2.20	±20% (M)	60	4.8	3.0	2.8	1,500



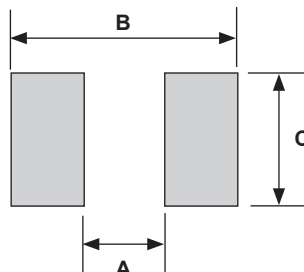
RECOMMENDED REFLOW SOLDERING PROFILE



RECOMMENDED LAND PATTERN DIMENSIONS

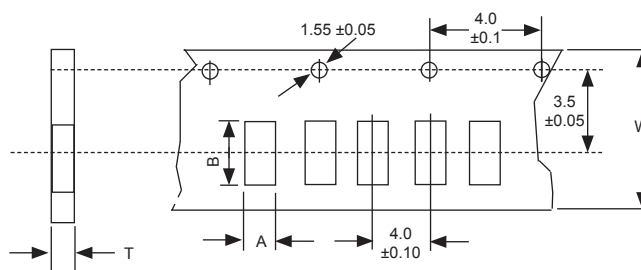
DIMENSIONS (mm)

Case Size	A	B	C
0603	0.7 ~ 0.8	1.8 ~ 2.0	0.8 ~ 1.0
0805	0.8 ~ 1.2	2.3 ~ 2.9	1.0 ~ 1.4
0806	0.7	2.3	1.8
1008	1.2	2.8	2.0
1210	1.7	3.5	2.5



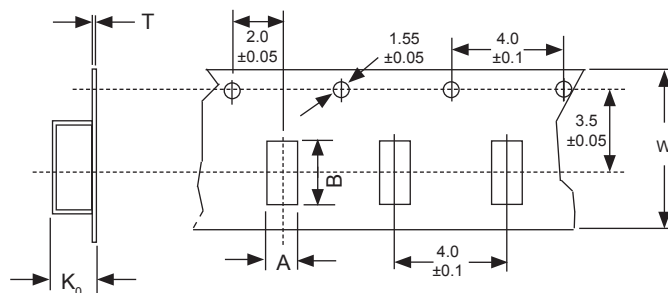
0603 PUNCHED CARRIER DIMENSIONS (mm)

Case Size	A	B	T	W	QTY/REEL
0603	1.20±0.1	1.88±0.1	0.95±0.05	8.0 ± 0.3	4,000



EMBOSSED PLASTIC CARRIER DIMENSIONS (mm)

Case Size	Max. Thickness	A	B	T	K ₀	W	QTY/REEL
0805	0.8	1.45±0.1	2.25±0.1	0.22±0.05	1.04	8.0 ± 0.3	3,000
	1.0	1.50±0.1	2.25±0.1	0.22±0.05	1.15±0.1	8.0 ± 0.3	3,000
0806	0.8	1.80±0.1	2.20±0.1	0.22±0.05	1.15±0.1	8.0 ± 0.3	3,000
	1.0	1.80±0.1	2.20±0.1	0.22±0.05	1.15±0.1	8.0 ± 0.3	3,000
1008	1.0	2.25±0.1	2.80±0.1	0.22±0.05	1.15±0.1	8.0 ± 0.3	3,000
	1.2	2.25±0.1	2.80±0.1	0.22±0.05	1.35±0.1	8.0 ± 0.3	3,000
1210	1.0	2.80±0.1	3.55±0.1	0.23±0.05	1.20±0.1	8.0 ± 0.3	3,000
	1.2	2.80±0.1	3.50±0.1	0.23±0.05	1.34±0.1	8.0 ± 0.3	3,000
	2.8	2.90±0.1	3.50±0.1	0.23±0.05	2.90±0.1	8.0 ± 0.3	1,500



REEL DIMENSIONS (mm):

