



PNL8040-SERIES-A



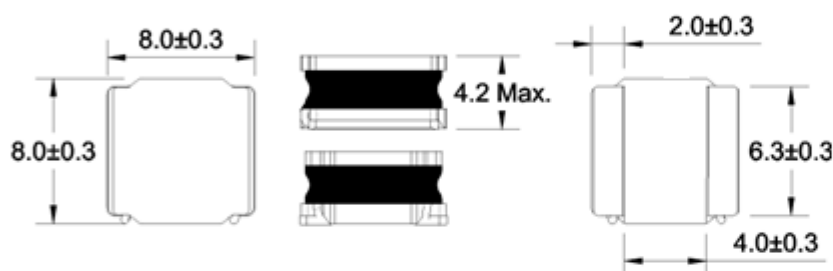
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

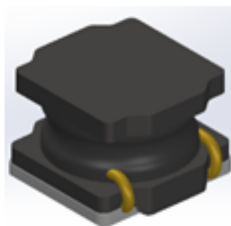
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

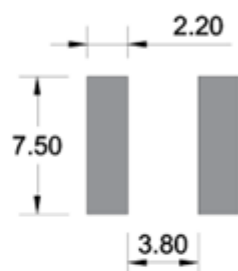
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(μH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL8040-R56N-A	0.56±30%	5	7	11.5	7.6
PNL8040-1R0N-A	1.0±30%	8	10	9.85	6.3
PNL8040-1R5N-A	1.5±30%	10	13	8.15	5.65
PNL8040-2R2N-A	2.2±30%	12	16	7.1	5.15
PNL8040-3R3N-A	3.3±30%	17	22	6.5	4.4
PNL8040-4R7N-A	4.7±30%	20	26	5.9	4
PNL8040-5R6N-A	5.6±30%	24	31	5.5	3.8
PNL8040-6R8M-A	6.8±20%	28	36	4.55	3.6
PNL8040-8R2M-A	8.2±20%	35	46	4.2	3.4
PNL8040-100M-A	10.0±20%	37	48	3.6	3.1
PNL8040-150M-A	15.0±20%	56	73	2.95	2.5
PNL8040-180M-A	18.0±20%	58	75	2.7	2.4
PNL8040-220M-A	22.0±20%	74	96	2.4	2
PNL8040-270M-A	27.0±20%	80	104	2.15	1.9

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,000
- * Box : 5,000



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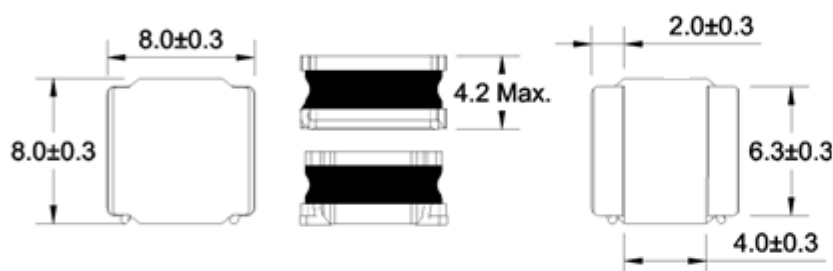
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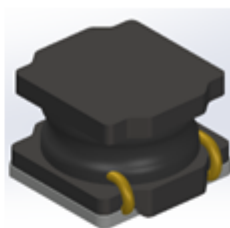
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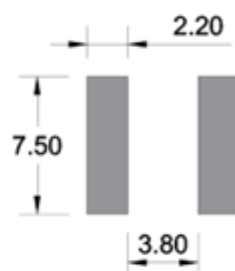
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

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		TYP.	MAX.	MAX.	MAX.
PNL8040-330M-A	33.0±20%	100	130	2.05	1.7
PNL8040-470M-A	47.0±20%	158	205	1.75	1.5
PNL8040-560M-A	56.0±20%	160	208	1.55	1.4
PNL8040-680M-A	68.0±20%	196	255	1.45	1.2
PNL8040-820M-A	82.0±20%	245	319	1.3	1.1
PNL8040-101M-A	100.0±20%	295	384	1.15	1
PNL8040-121M-A	120.0±20%	380	494	1.1	0.9
PNL8040-151M-A	150.0±20%	470	611	1.1	0.8
PNL8040-171M-A	170.0±20%	538	699	0.95	0.75
PNL8040-181M-A	180.0±20%	610	793	0.9	0.75
PNL8040-221M-A	220.0±20%	660	858	0.85	0.7
PNL8040-331M-A	330.0±20%	970	1,261	0.68	0.55
PNL8040-471M-A	470.0±20%	1,400	1,820	0.6	0.48
PNL8040-681M-A	680.0±20%	1,750	2,275	0.5	0.45

Notes

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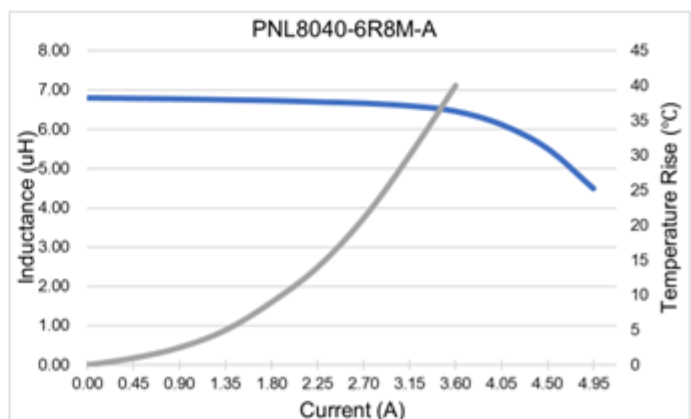
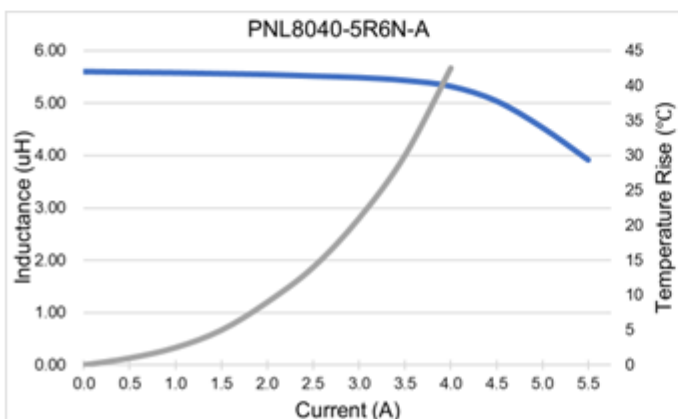
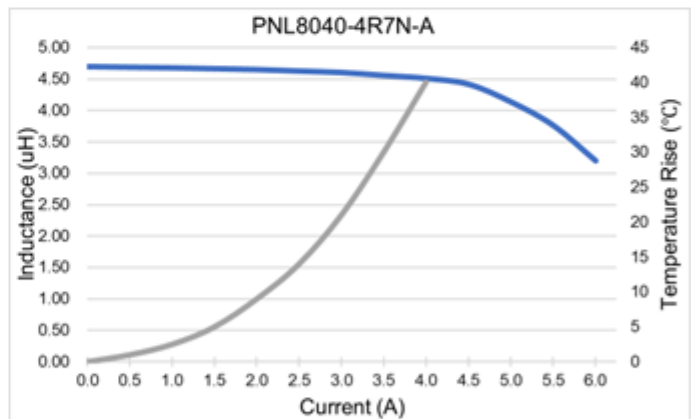
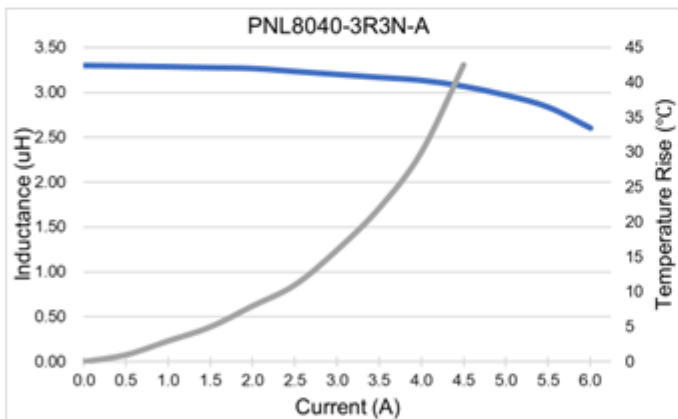
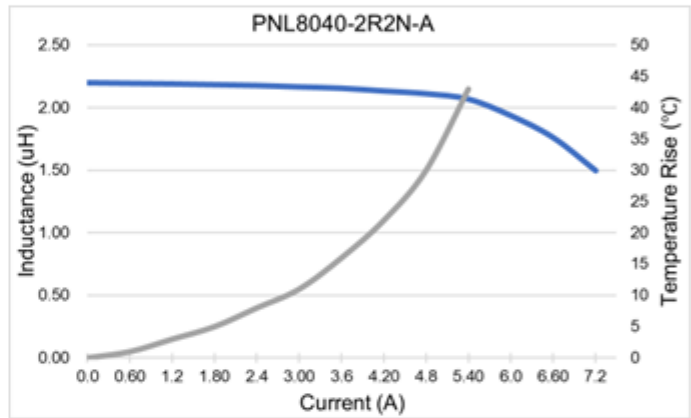
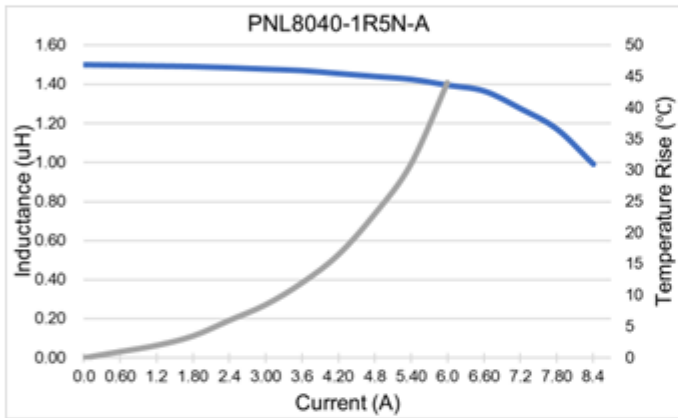
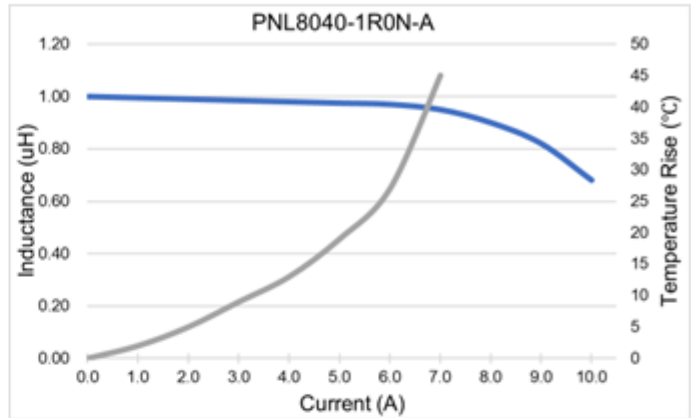
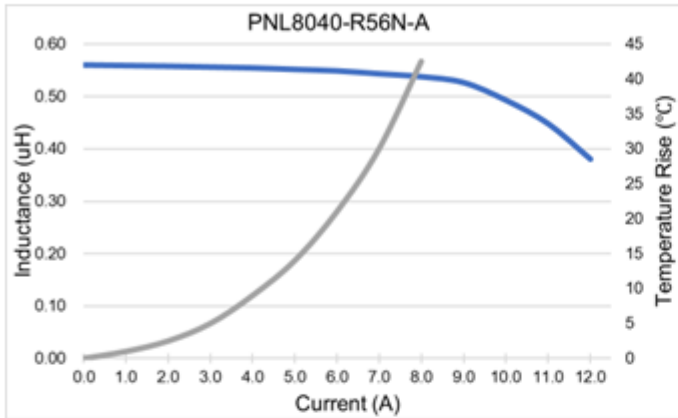
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Performance Graph

— Inductance (uH)
— Temperature Rise (°C)

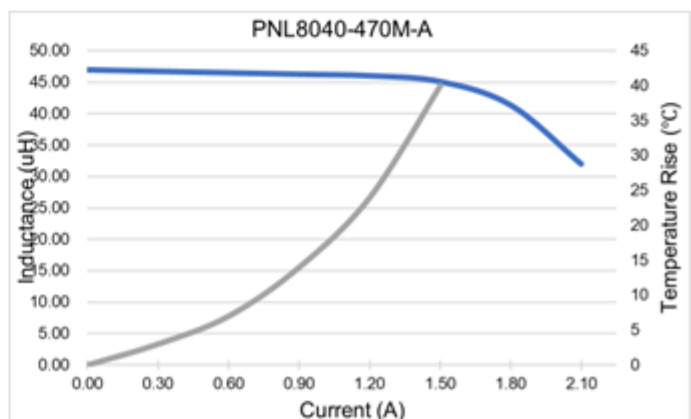
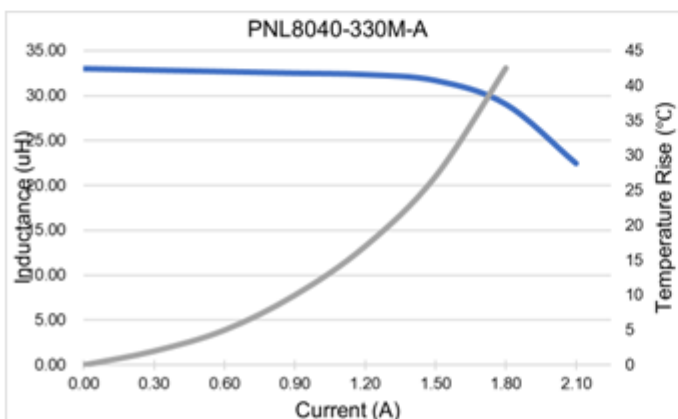
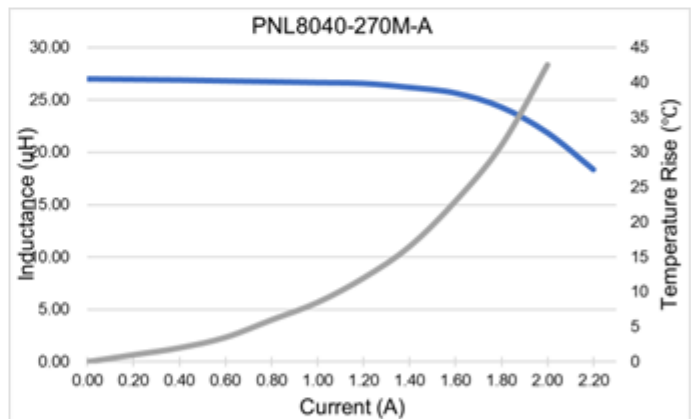
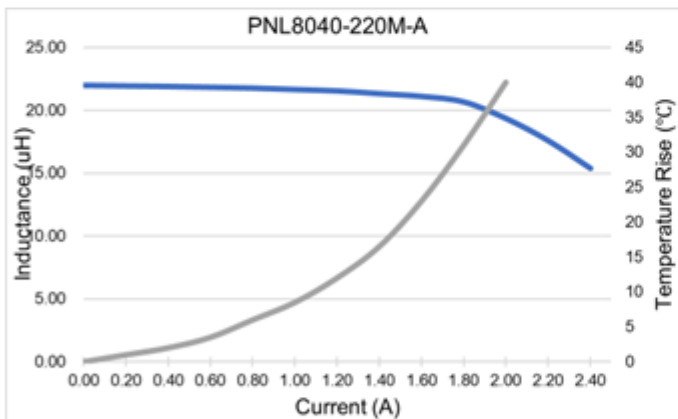
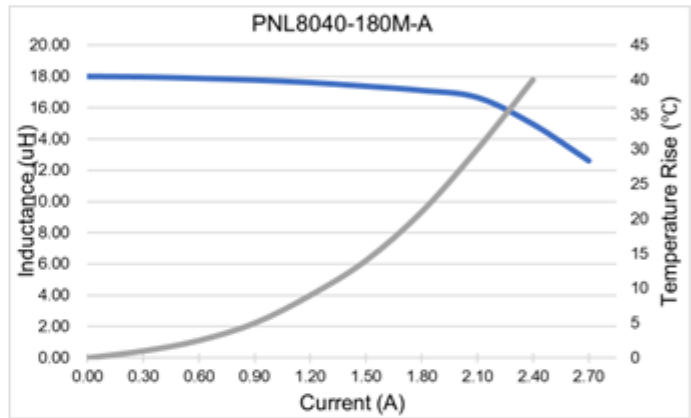
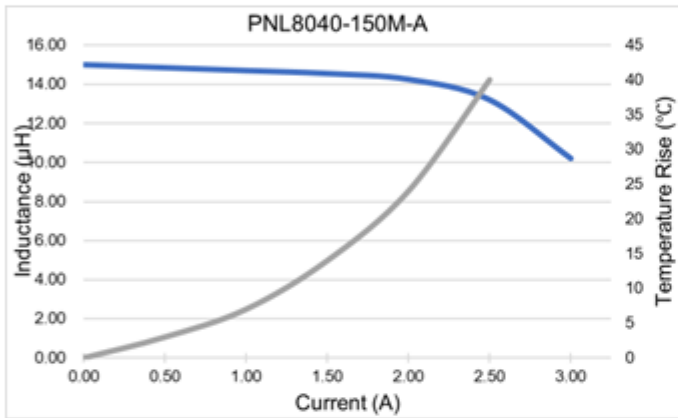
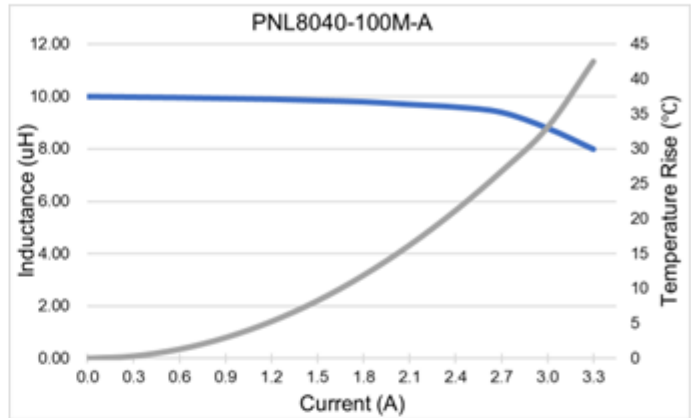
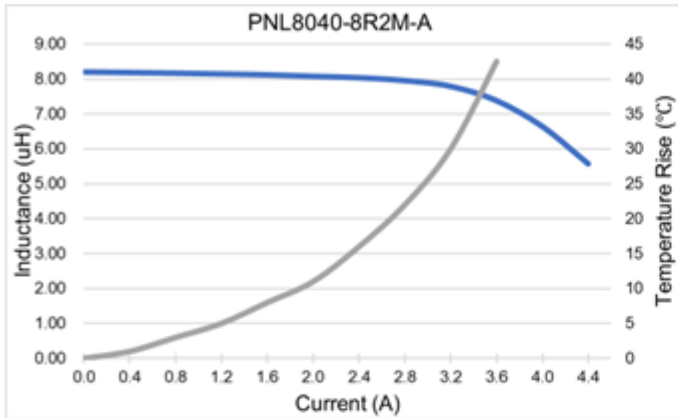




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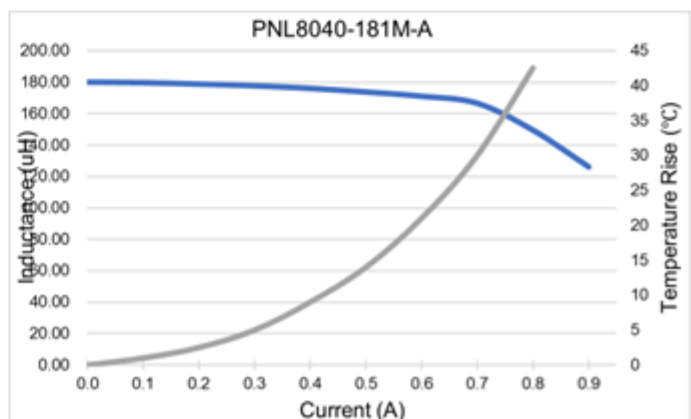
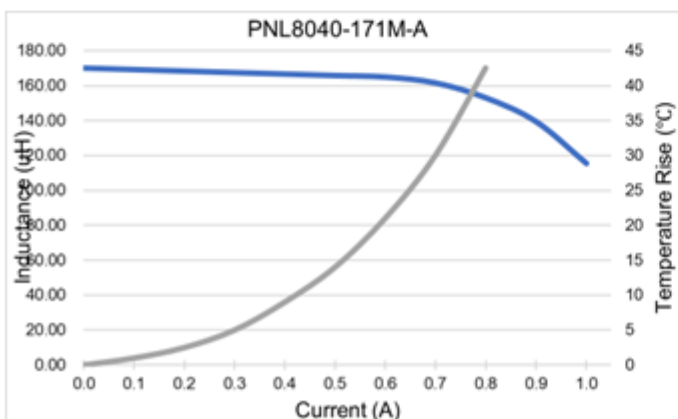
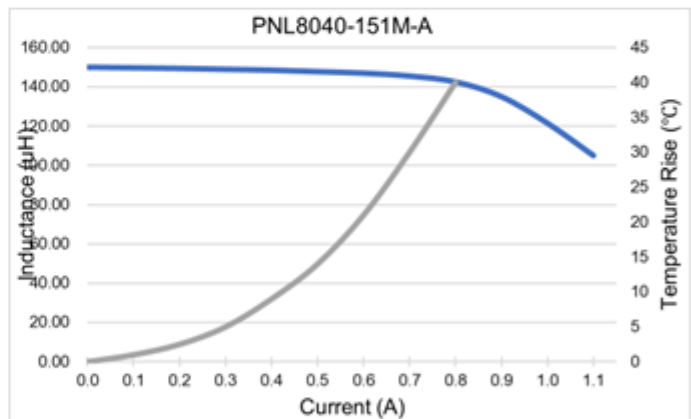
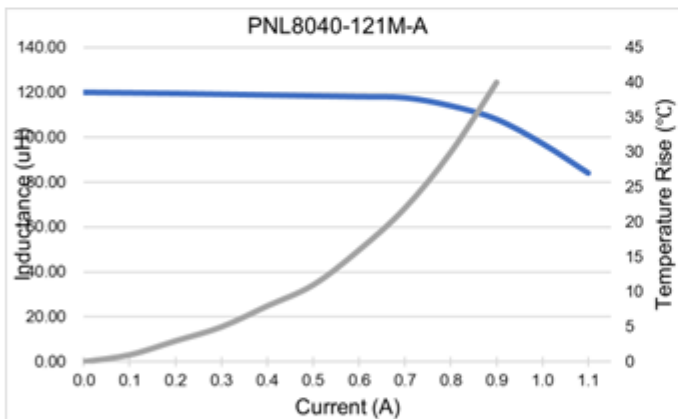
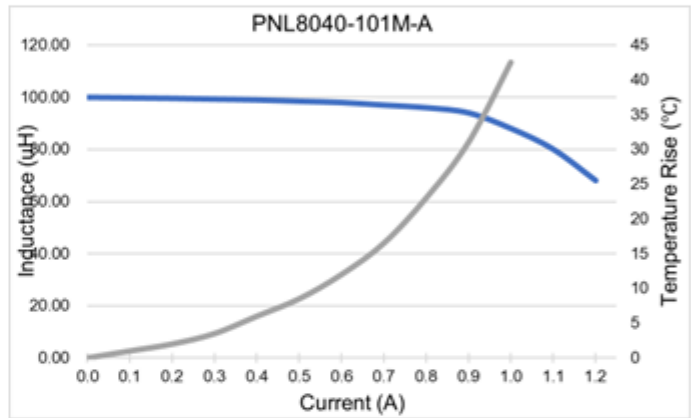
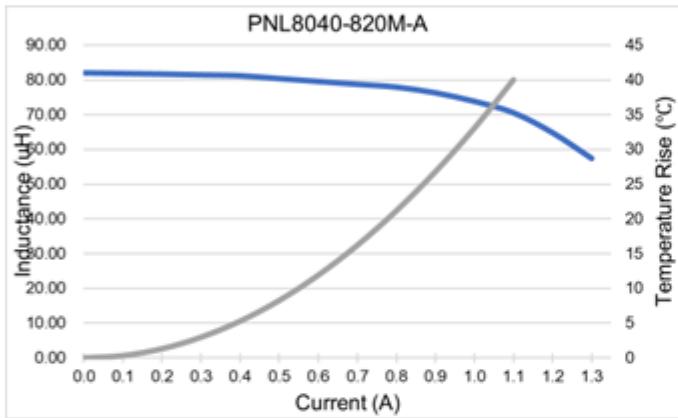
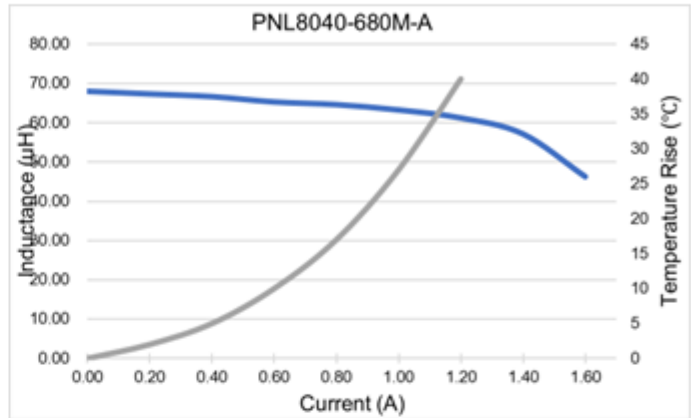
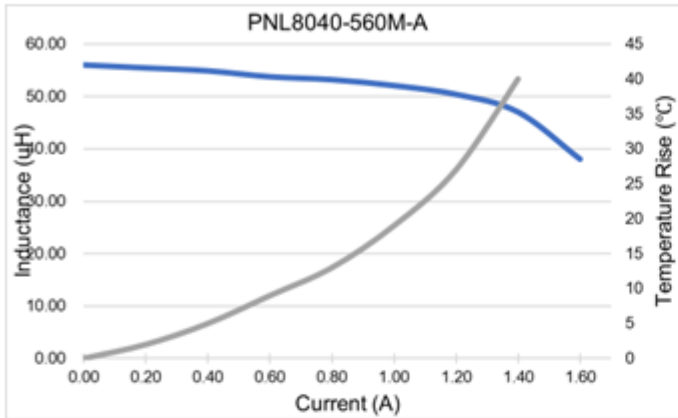




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