



PNL6045-SERIES-A



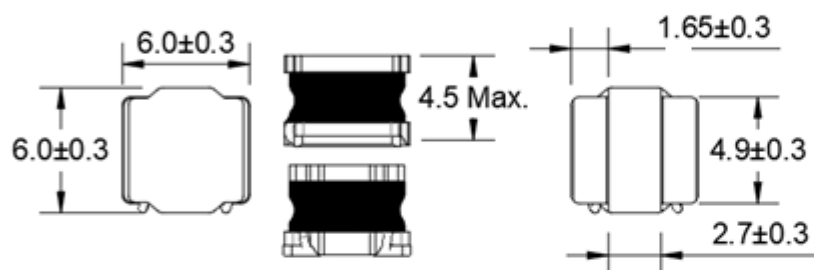
Applications

- 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

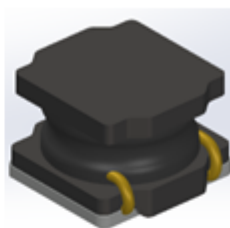
Environmental data

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

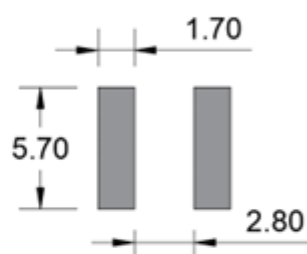
Dimensions [Unit : mm]



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.
PNL6045-1R0N-A	1.0±30%	11	14	9.85	5.14
PNL6045-1R8N-A	1.8±30%	12	16	7.6	4.95
PNL6045-2R2N-A	2.2±30%	14	18	6.75	4.6
PNL6045-2R7N-A	2.7±30%	15	20	5.75	4.3
PNL6045-3R3N-A	3.3±30%	21	27	5.9	3.7
PNL6045-4R7M-A	4.7±20%	26	34	4.97	3.3
PNL6045-5R1M-A	5.1±20%	26	34	4.4	3.3
PNL6045-5R6M-A	5.6±20%	29	38	4.15	3.15
PNL6045-6R8M-A	6.8±20%	31	40	3.9	3
PNL6045-100M-A	10±20%	48	62	3.2	2.45
PNL6045-120M-A	12±20%	58	75	2.8	2.2
PNL6045-150M-A	15±20%	68	88	2.5	2.05
PNL6045-180M-A	18±20%	81	105	2.2	1.85
PNL6045-220M-A	22±20%	89	116	2.05	1.8
PNL6045-270M-A	27±20%	102	133	1.9	1.65
PNL6045-300M-A	30±20%	132	172	1.7	1.5

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 : 1,500
- * Box : 9,000



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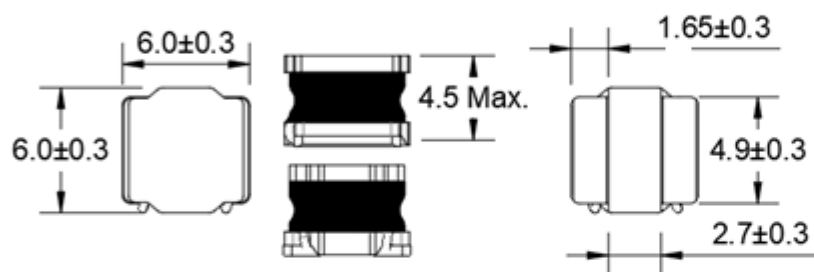
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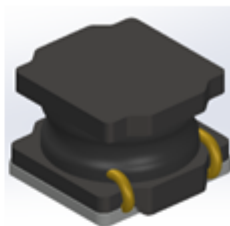
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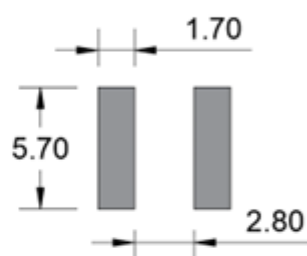
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

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		TYP.	MAX.	MAX.	MAX.
PNL6045-330M-A	33±20%	137	178	1.65	1.45
PNL6045-360M-A	36±20%	173	225	1.62	1.4
PNL6045-390M-A	39±20%	180	234	1.5	1.25
PNL6045-470M-A	47±20%	200	260	1.4	1.2
PNL6045-560M-A	56±20%	221	287	1.3	1.1
PNL6045-680M-A	68±20%	289	376	1.2	1
PNL6045-820M-A	82±20%	341	443	1.05	0.9
PNL6045-101M-A	100±20%	433	563	0.95	0.8
PNL6045-121M-A	120±20%	484	629	0.85	0.77
PNL6045-151M-A	150±20%	580	754	0.8	0.7
PNL6045-221M-A	220±20%	834	1,084	0.7	0.59
PNL6045-331M-A	330±20%	1,270	1,651	0.57	0.57
PNL6045-681M-A	680±20%	2,500	3,250	0.42	0.33
PNL6045-102M-A	1,000±20%	4,500	5,850	0.3	0.3
PNL6045-152M-A	1,500±20%	6,500	8,450	0.24	0.21
PNL6045-222M-A	2,200±20%	10,400	12,480	0.2	0.17

Notes

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Packing Q'ty (PCS)

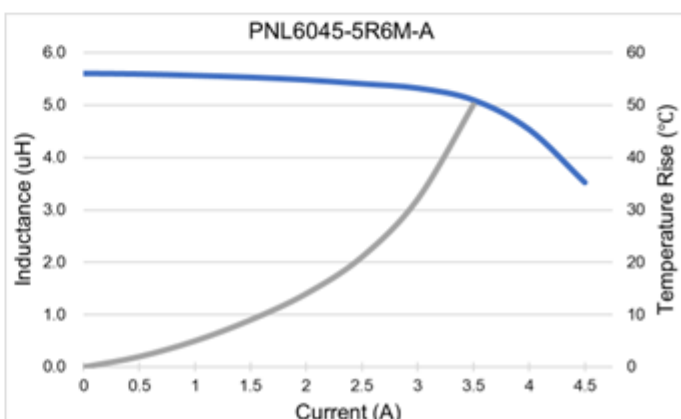
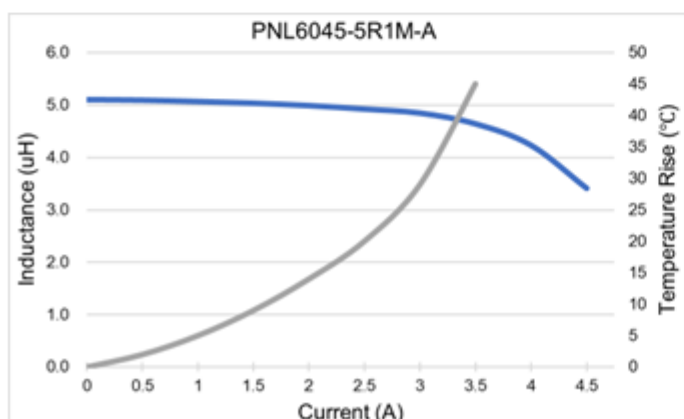
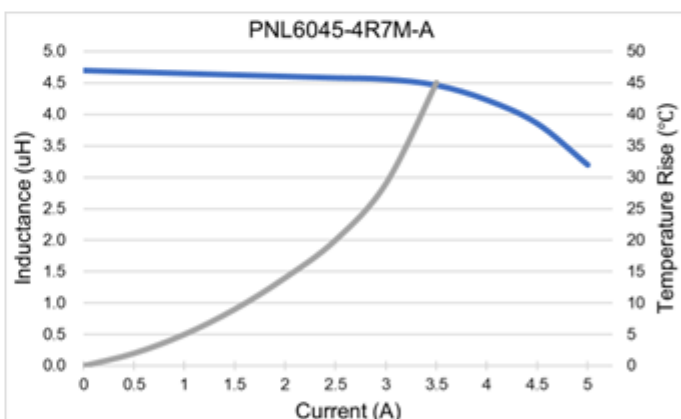
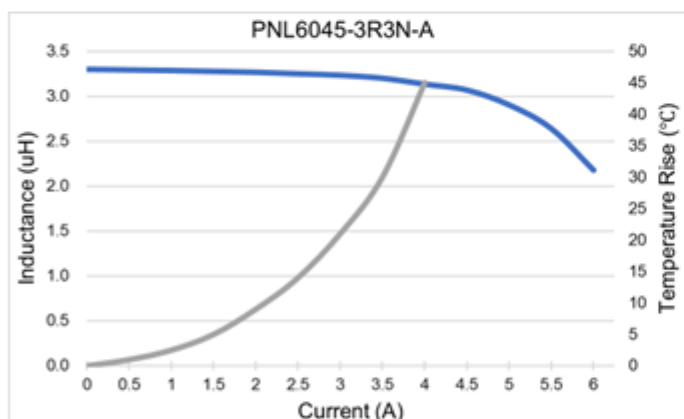
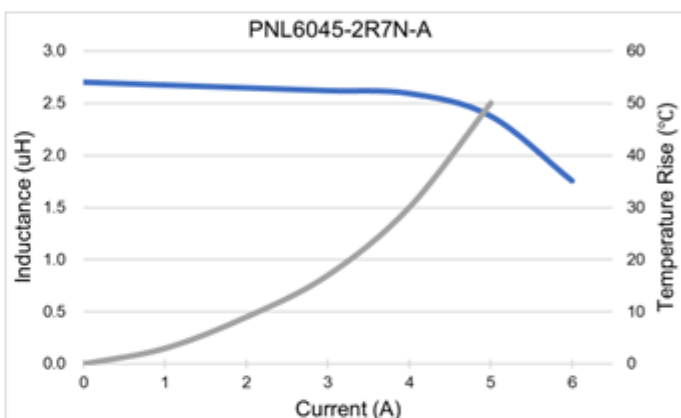
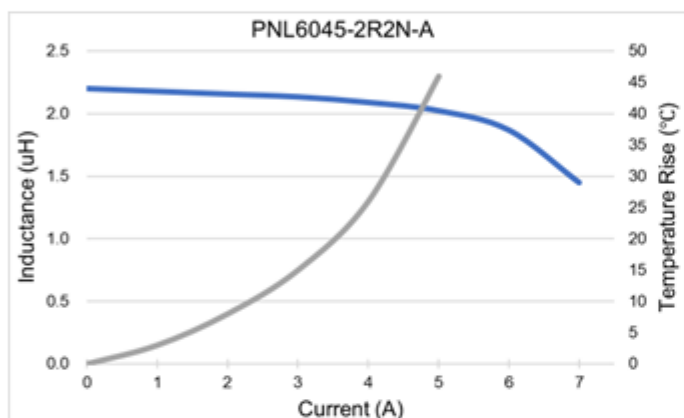
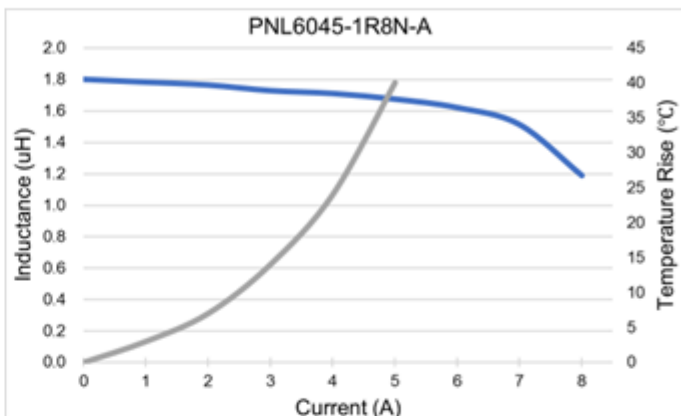
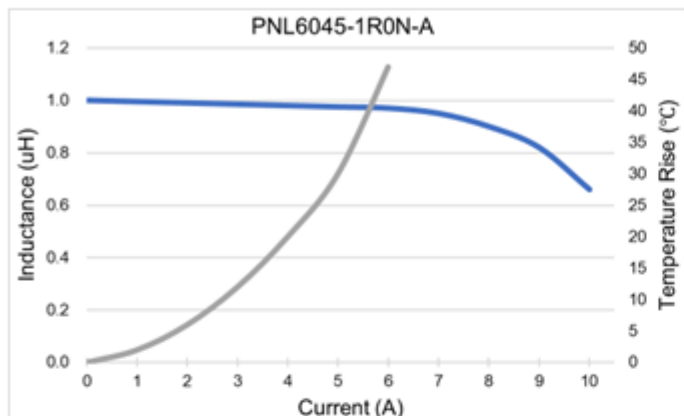
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Performance Graph

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

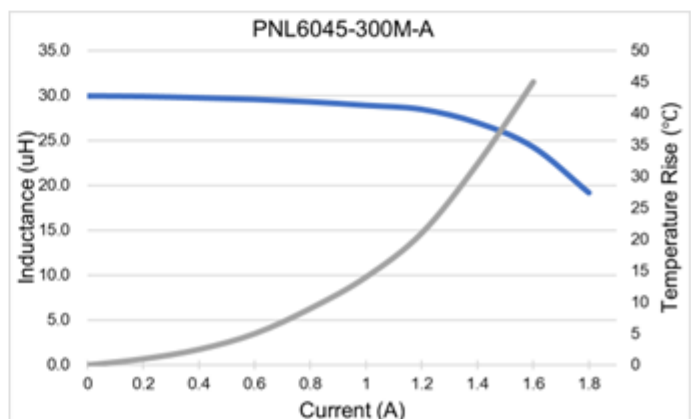
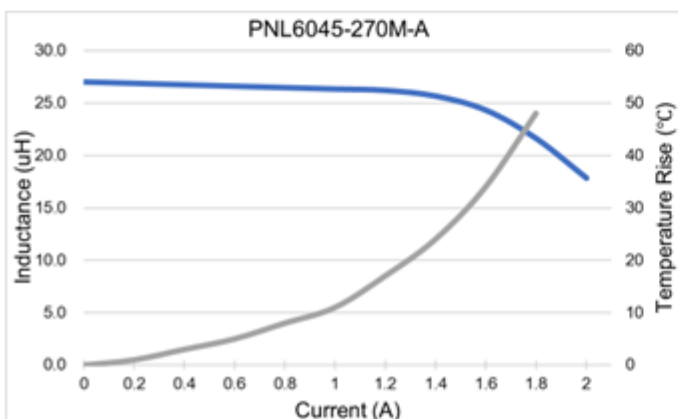
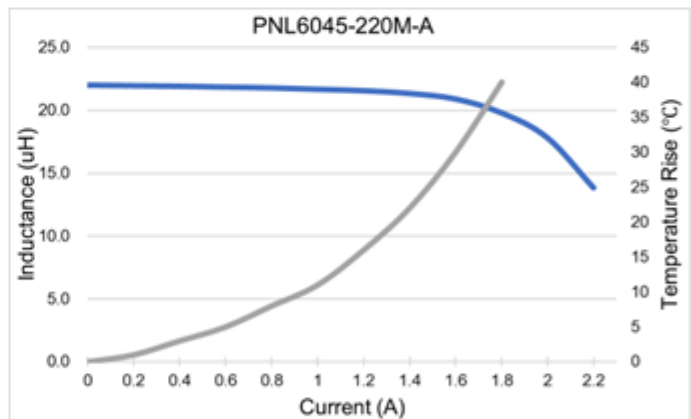
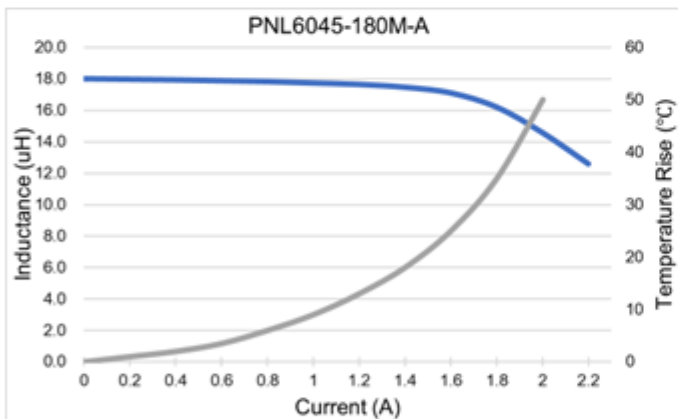
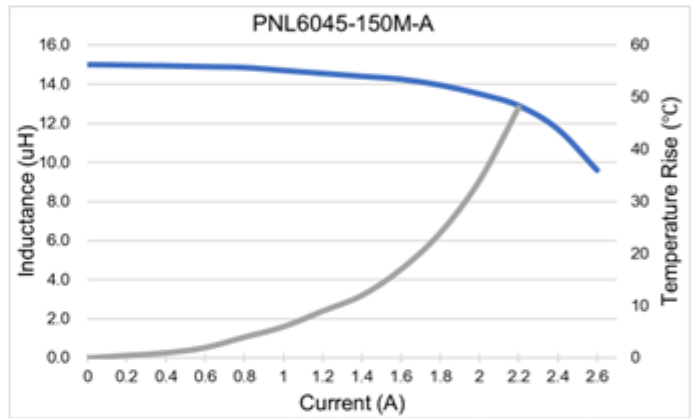
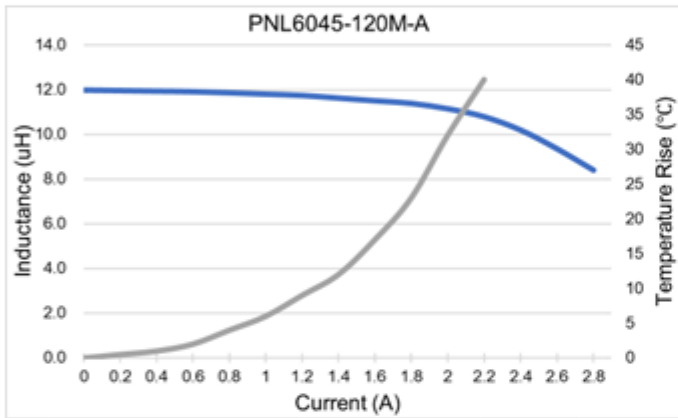
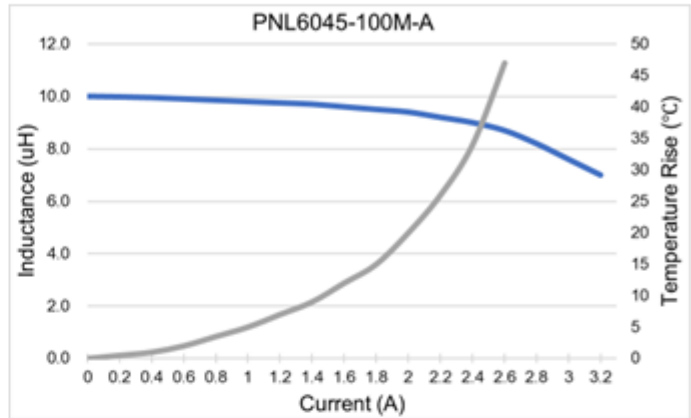
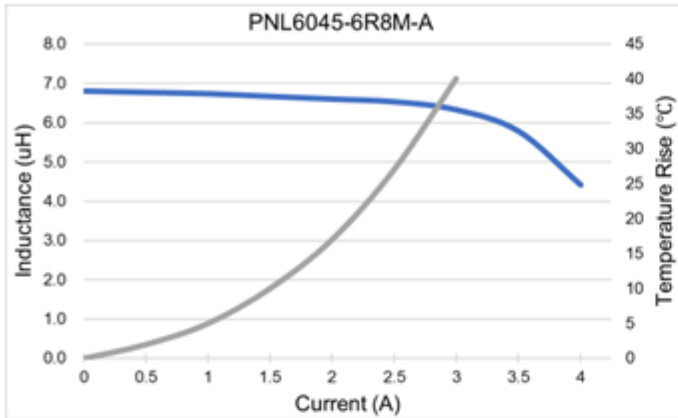




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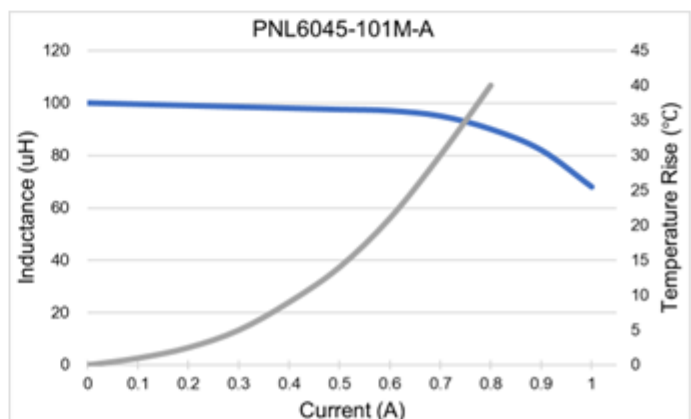
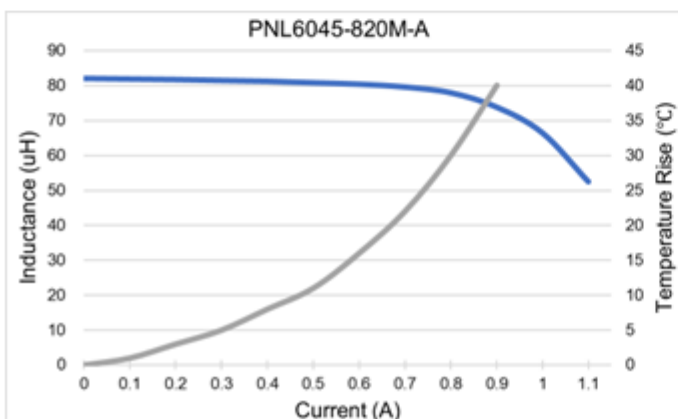
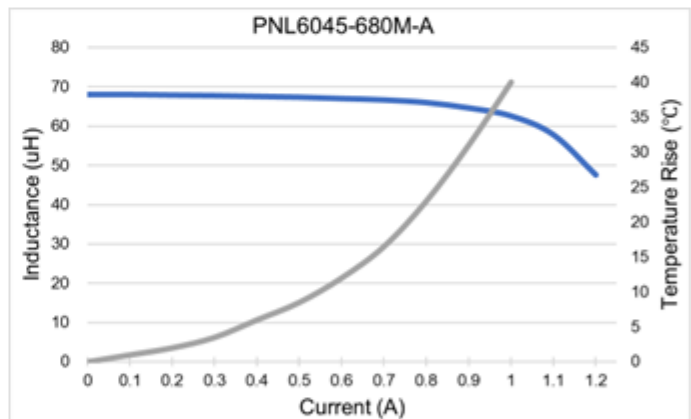
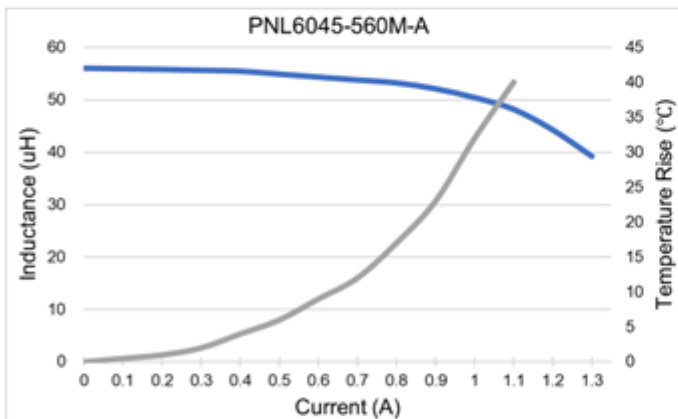
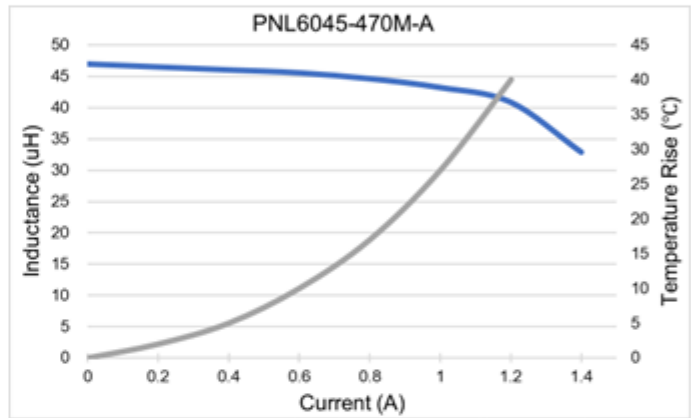
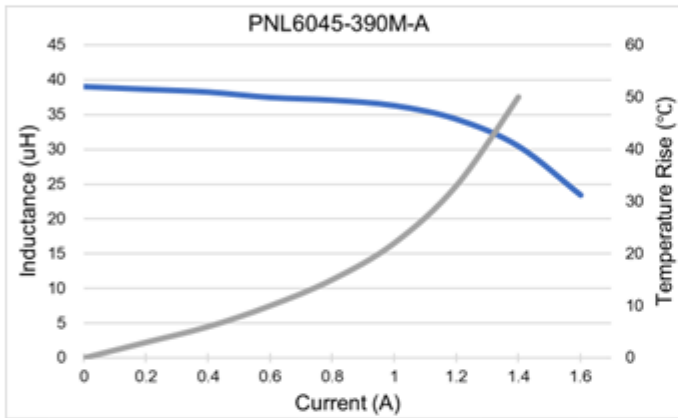
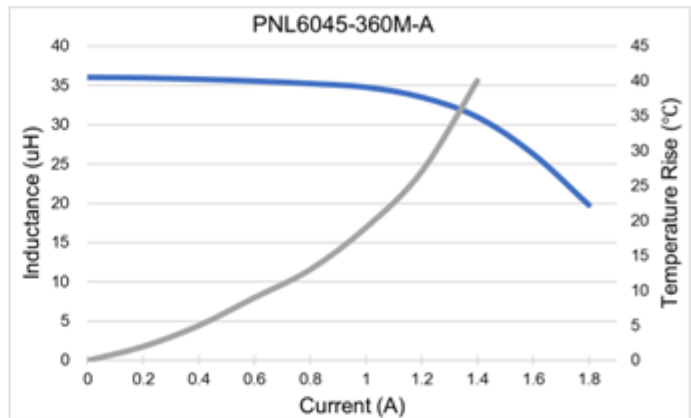
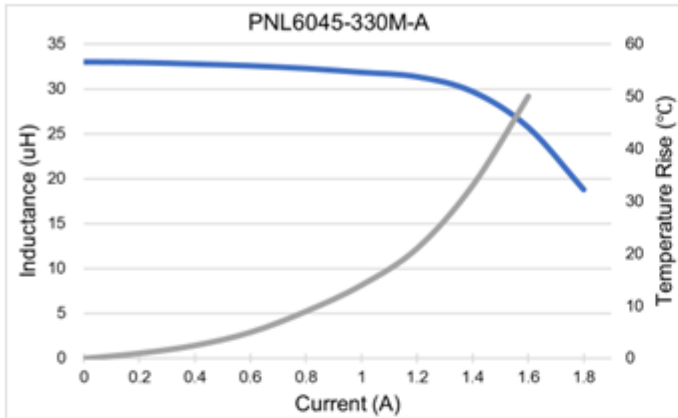




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Performance Graph

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





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— Inductance (uH)
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