



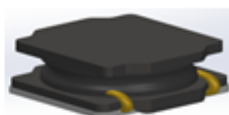
PNL5020-SERIES-A



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

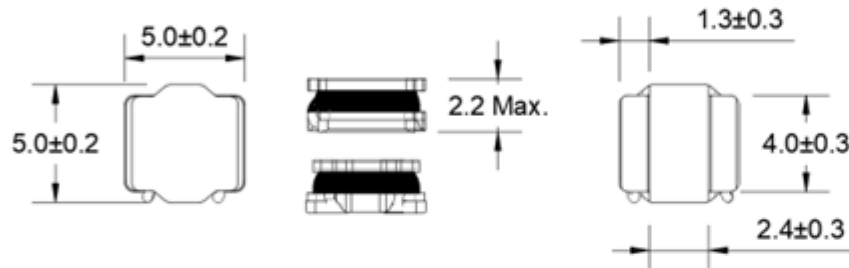
Picture



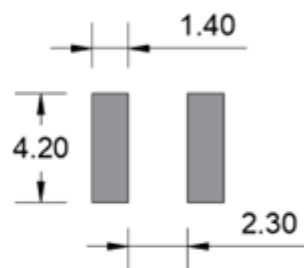
Environmental data

- 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]



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.
PNL5020-R22N-A	0.22±30%	11	14	8	5
PNL5020-R24N-A	0.24±30%	11	14	8	5
PNL5020-R33N-A	0.33±30%	15	20	7.5	4.6
PNL5020-R47N-A	0.47±30%	15	20	6.15	4.6
PNL5020-1R0N-A	1.0±30%	20	26	4.33	3.7
PNL5020-1R2N-A	1.2±30%	25	33	4.2	3.5
PNL5020-1R5N-A	1.5±30%	26	34	4.1	3.2
PNL5020-1R8N-A	1.8±30%	30	39	4	3
PNL5020-2R2N-A	2.2±30%	38	49	3.85	2.9
PNL5020-2R7N-A	2.7±30%	45	59	3.5	2.4
PNL5020-3R3N-A	3.3±30%	46	60	3.25	2.4
PNL5020-3R6N-A	3.6±30%	48	62	2.9	2.3
PNL5020-3R9N-A	3.9±30%	50	65	2.9	2.15
PNL5020-4R7M-A	4.7±20%	65	85	2.4	2.05

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 : 3,000
- * Box : 18,000



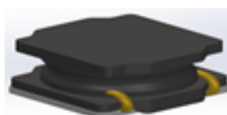
PNL5020-SERIES-A



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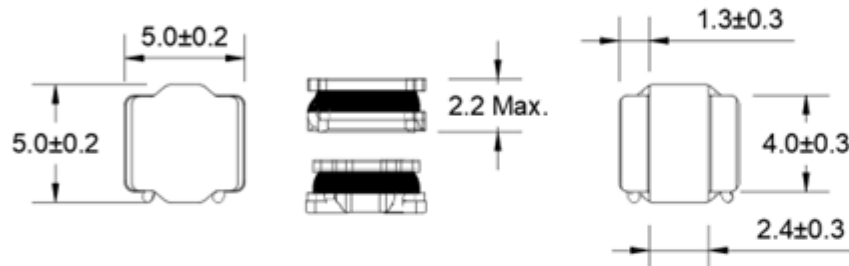
Picture



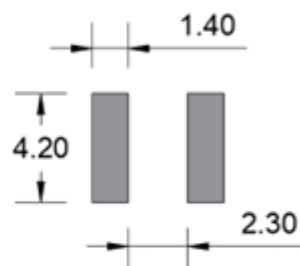
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		TYP.	MAX.	MAX.	MAX.
PNL5020-5R6M-A	5.6±20%	72	94	2.3	1.85
PNL5020-6R8M-A	6.8±20%	92	120	2.1	1.7
PNL5020-8R2M-A	8.2±20%	100	130	1.9	1.6
PNL5020-100M-A	10.0±20%	125	163	1.8	1.5
PNL5020-150M-A	15.0±20%	180	234	1.44	1.25
PNL5020-220M-A	22.0±20%	250	325	1.18	1.05
PNL5020-270M-A	27.0±20%	300	390	1.1	1
PNL5020-330M-A	33.0±20%	370	481	0.97	0.83
PNL5020-470M-A	47.0±20%	560	728	0.81	0.7
PNL5020-680M-A	68.0±20%	850	1,105	0.7	0.53
PNL5020-820M-A	82.0±20%	950	1,235	0.65	0.5
PNL5020-101M-A	100.0±20%	1,100	1,430	0.57	0.43
PNL5020-151M-A	150.0±20%	1,500	1,950	0.41	0.4
PNL5020-221M-A	220.0±20%	2,230	2,899	0.35	0.3

Notes

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Packing Q'ty (PCS)

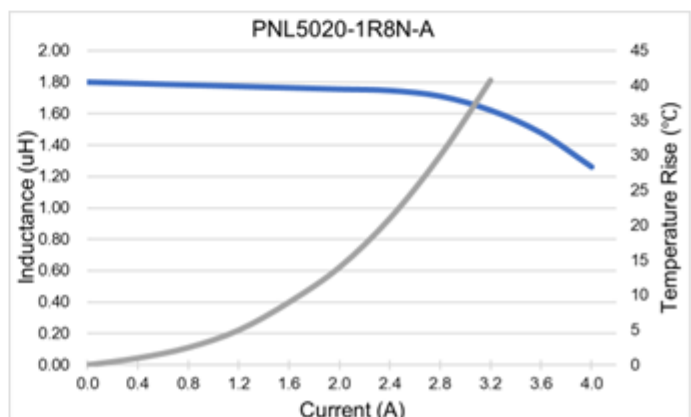
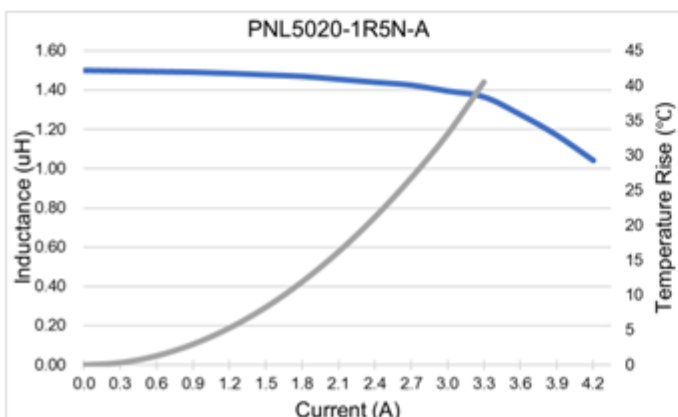
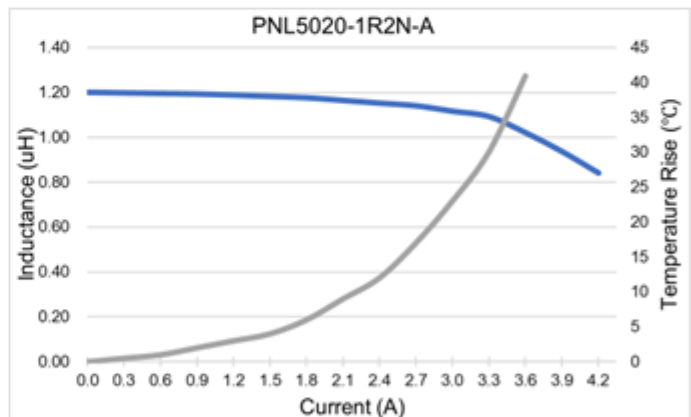
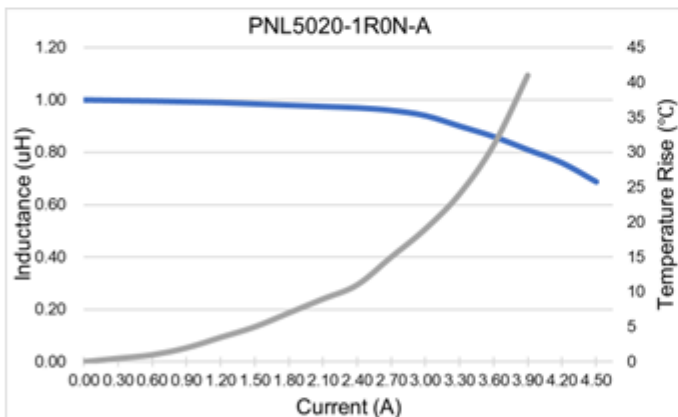
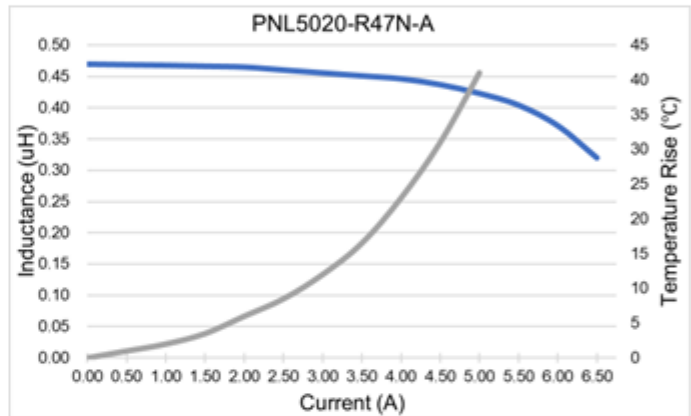
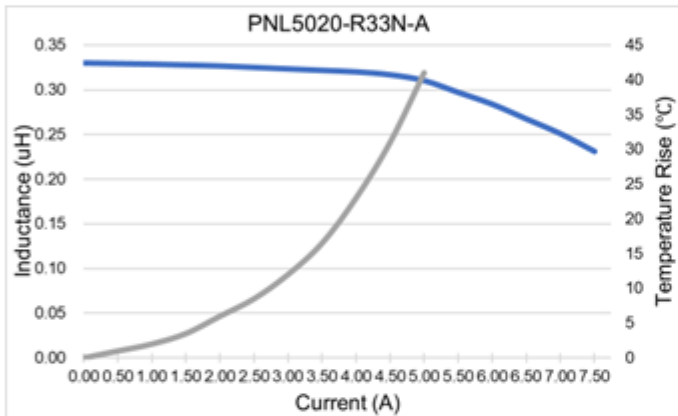
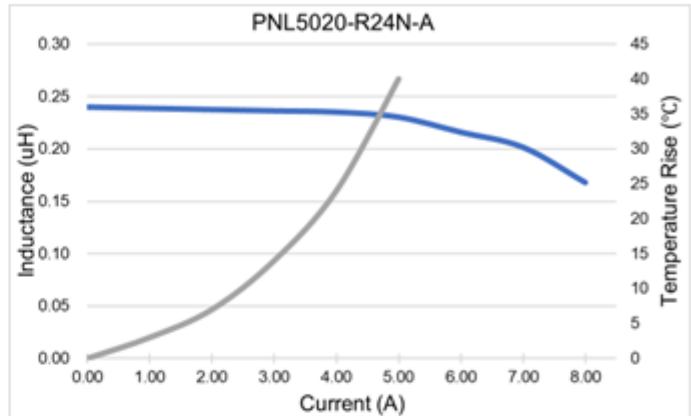
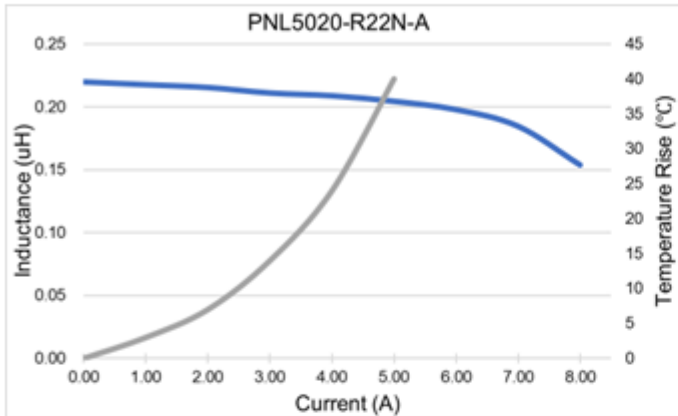
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PNL5020-SERIES-A

Performance Graph

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

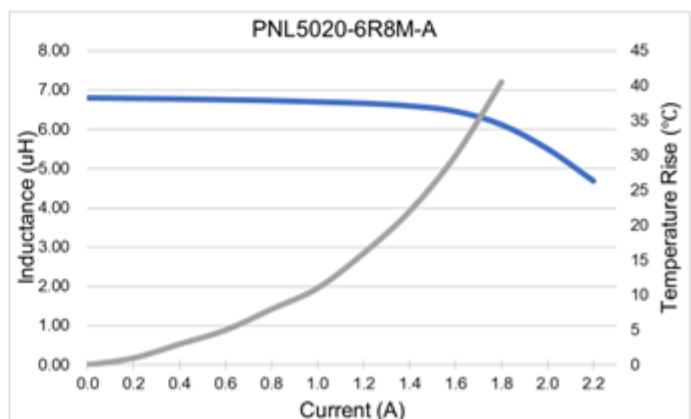
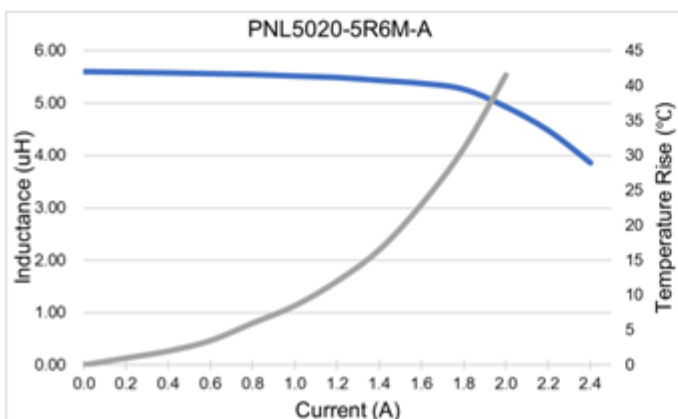
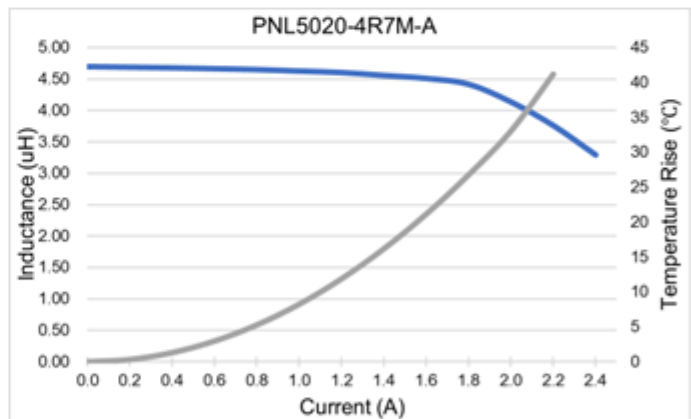
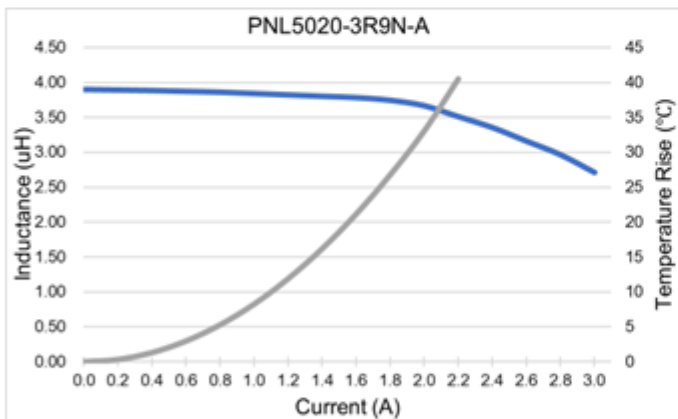
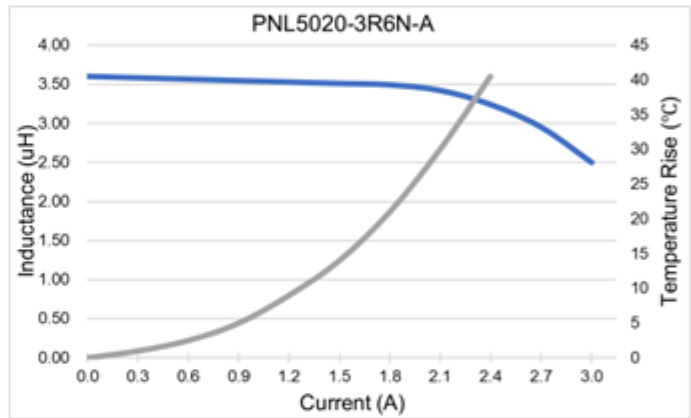
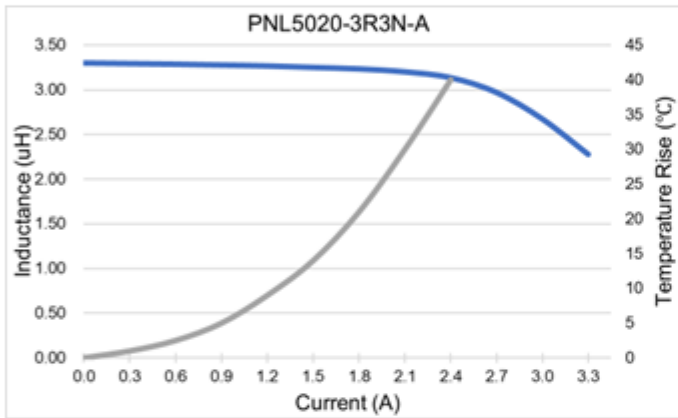
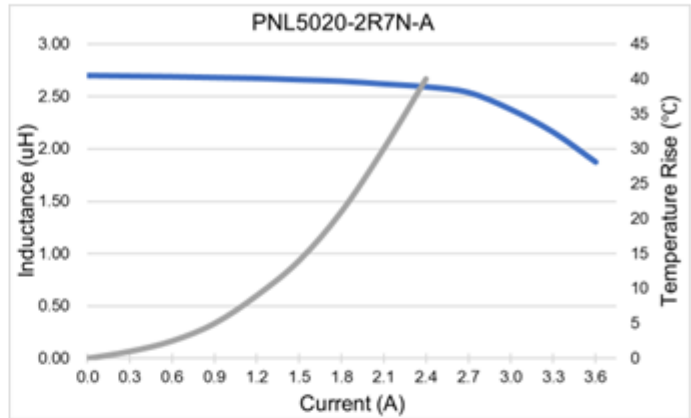
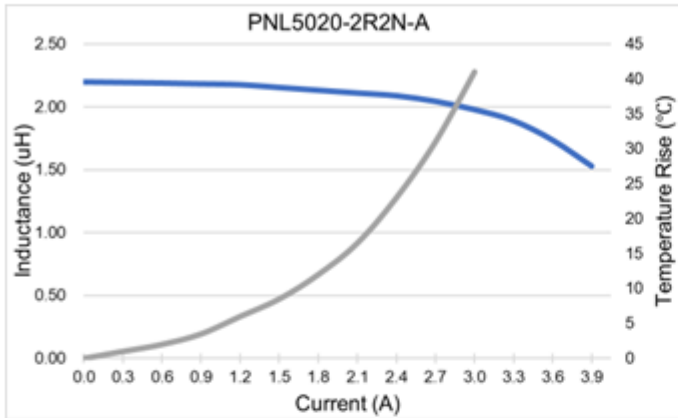




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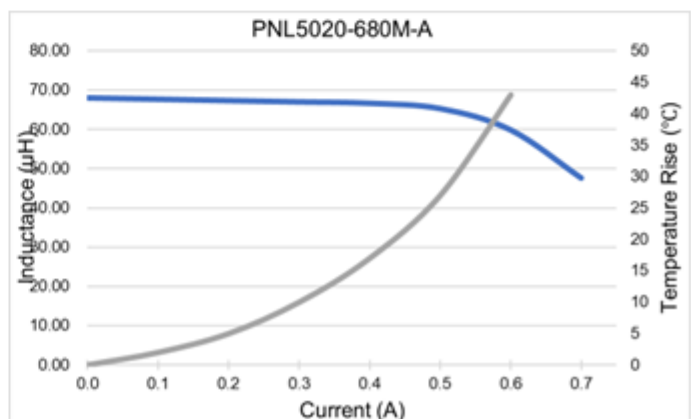
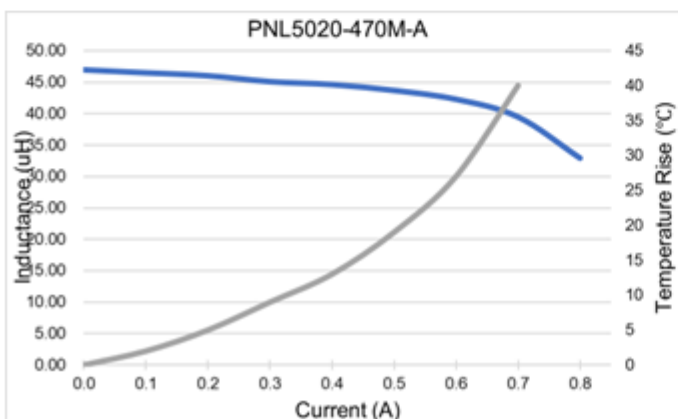
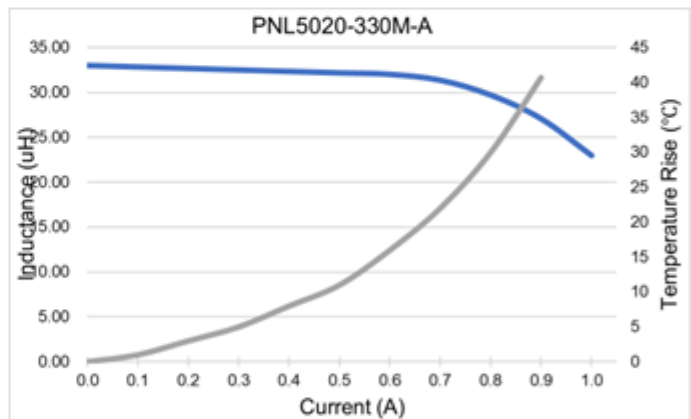
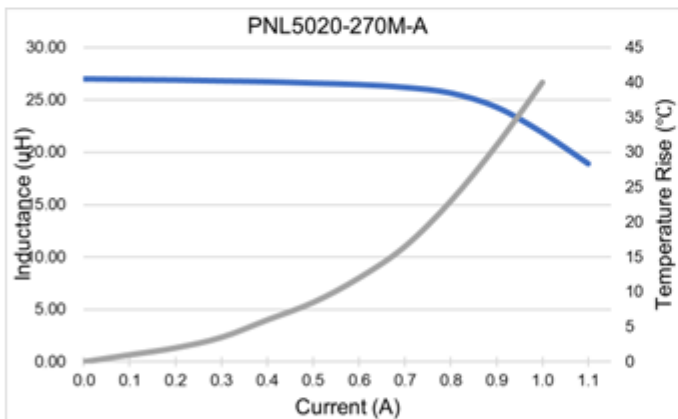
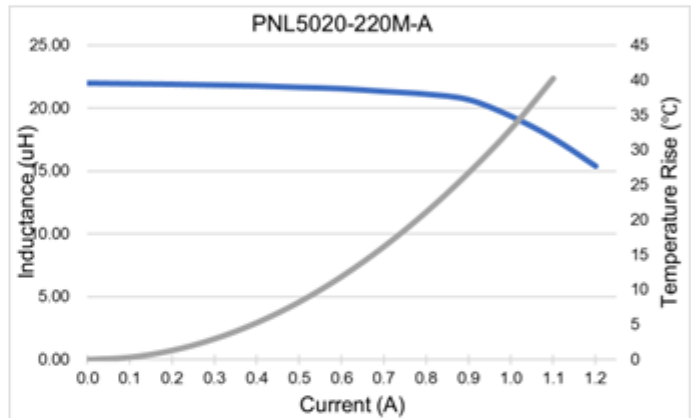
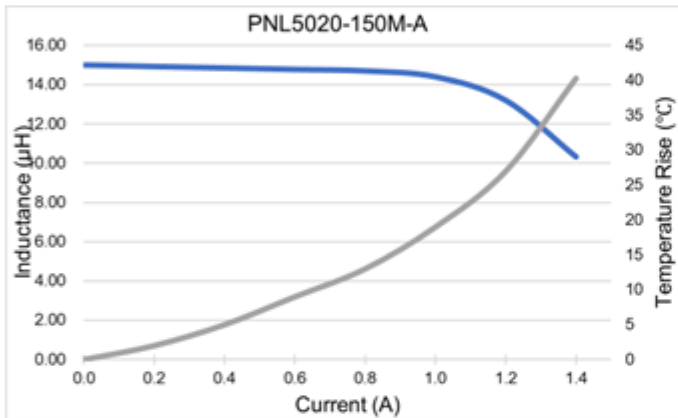
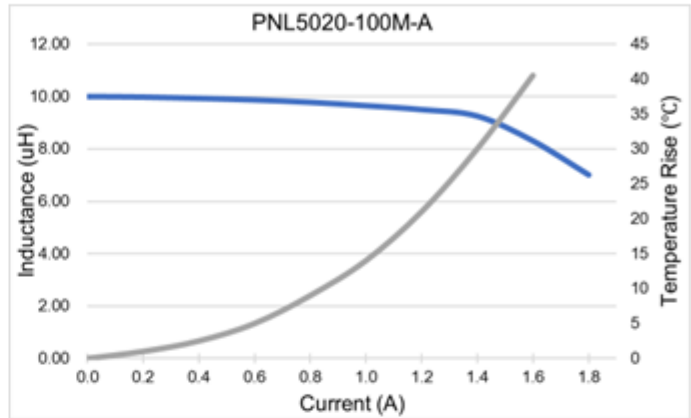
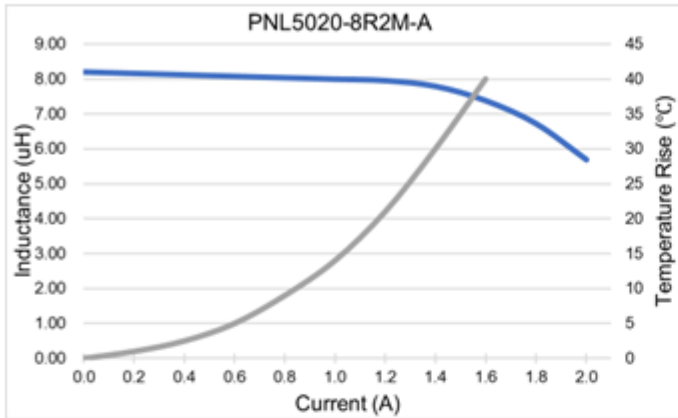




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