



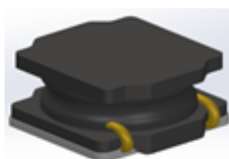
## PNL5030-SERIES-A



### 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

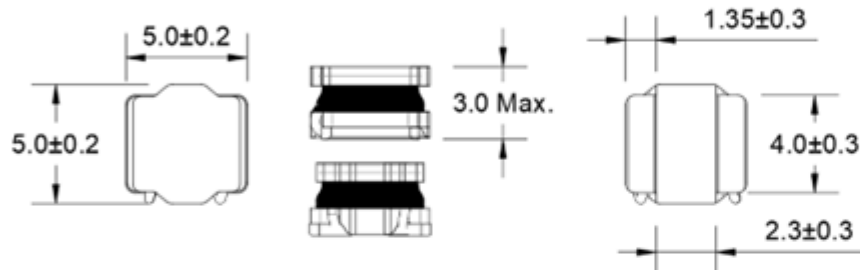
### Picture



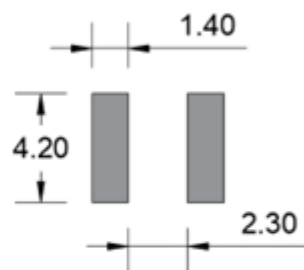
### Environmental data

- 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.
PNL5030-R47N-A	0.47±30%	10	13	9	5
PNL5030-1R0N-A	1.0±30%	15	20	6.65	4
PNL5030-1R5N-A	1.5±30%	16	21	4.8	3.9
PNL5030-2R2M-A	2.2±20%	23	30	4.2	3.5
PNL5030-3R3M-A	3.3±20%	30	39	3.6	3
PNL5030-4R7M-A	4.7±20%	35	46	3.1	2.6
PNL5030-6R8M-A	6.8±20%	52	68	2.5	2.3
PNL5030-100M-A	10.0±20%	70	91	1.9	1.7
PNL5030-150M-A	15.0±20%	125	163	1.6	1.4
PNL5030-220M-A	22.0±20%	180	234	1.4	1.05
PNL5030-270M-A	27.0±20%	190	247	1.3	0.9
PNL5030-330M-A	33.0±20%	225	293	1.15	0.8
PNL5030-470M-A	47.0±20%	325	423	0.95	0.7
PNL5030-560M-A	56.0±20%	420	546	0.89	0.65
PNL5030-680M-A	68.0±20%	475	618	0.85	0.6
PNL5030-101M-A	100.0±20%	720	936	0.58	0.59
PNL5030-151M-A	150.0±20%	1,050	1,365	0.56	0.55
PNL5030-221M-A	220.0±20%	1,300	1,690	0.5	0.45

### 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)

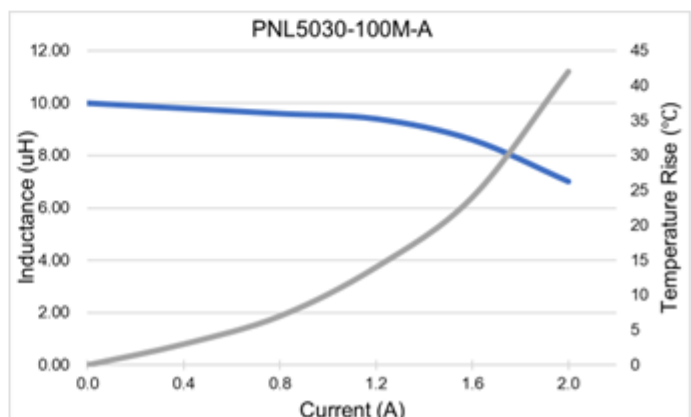
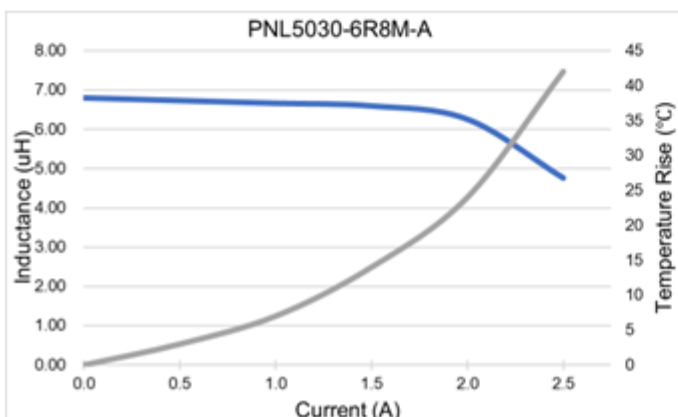
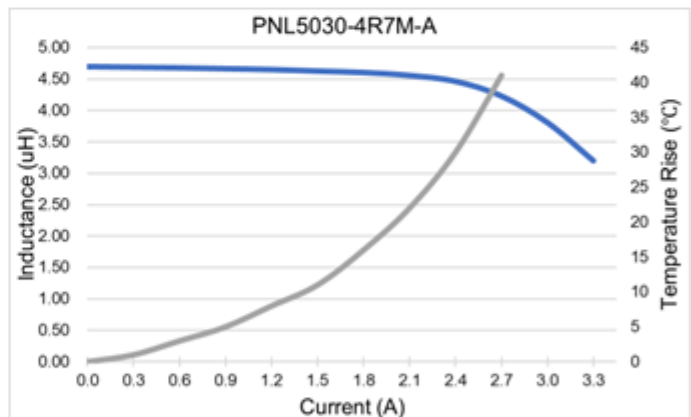
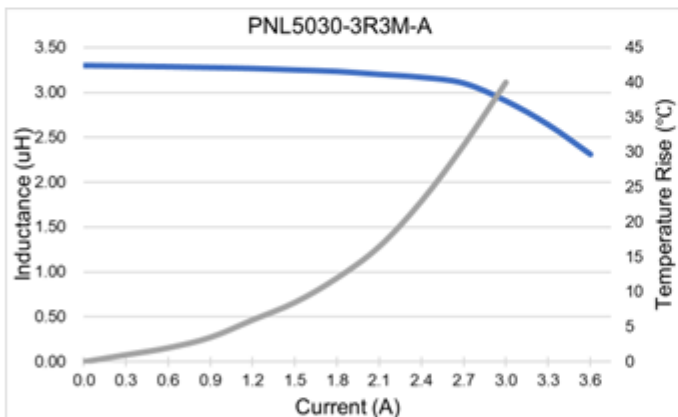
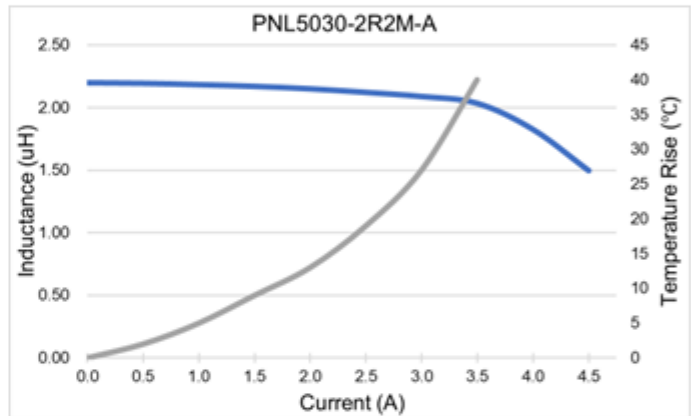
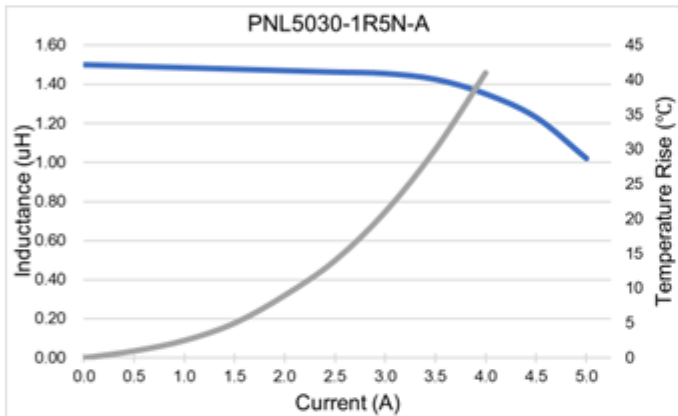
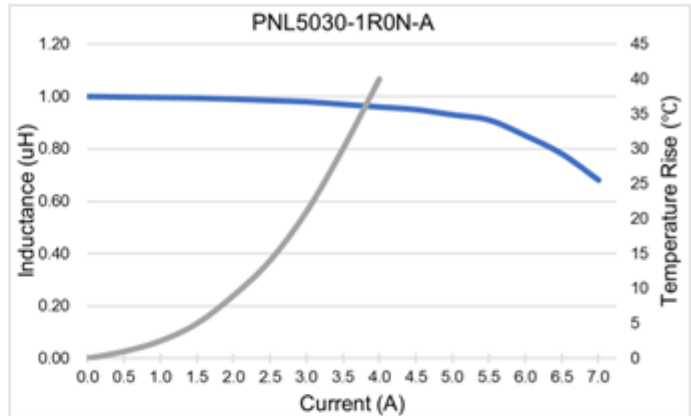
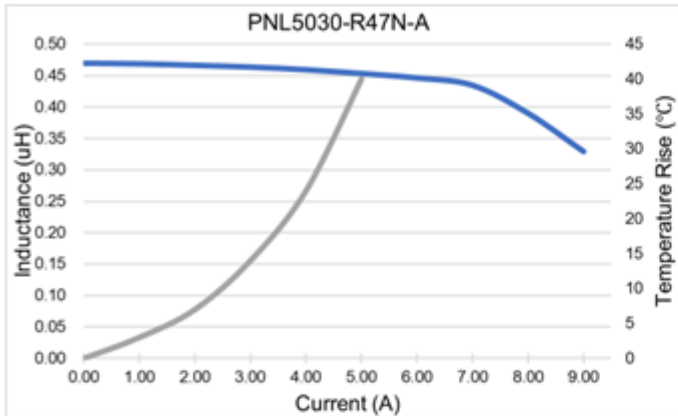
- \* Reel : 2,000
- \* Box : 12,000



## PNL5030-SERIES-A

### Performance Graph

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

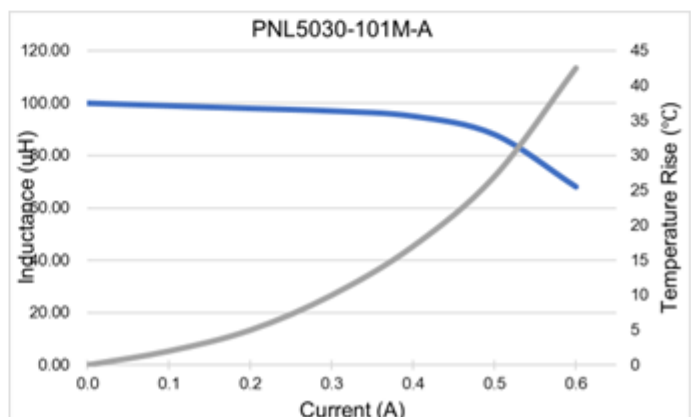
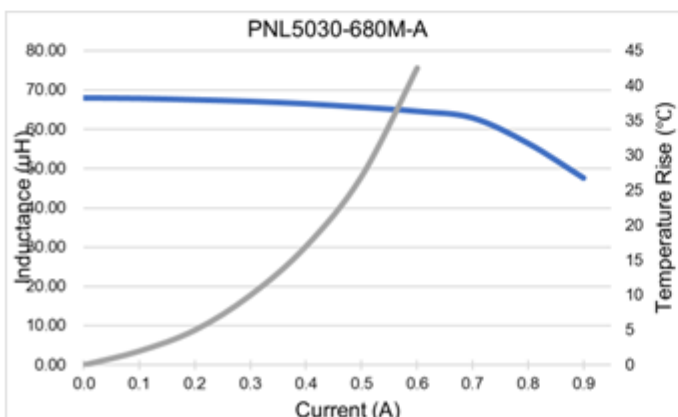
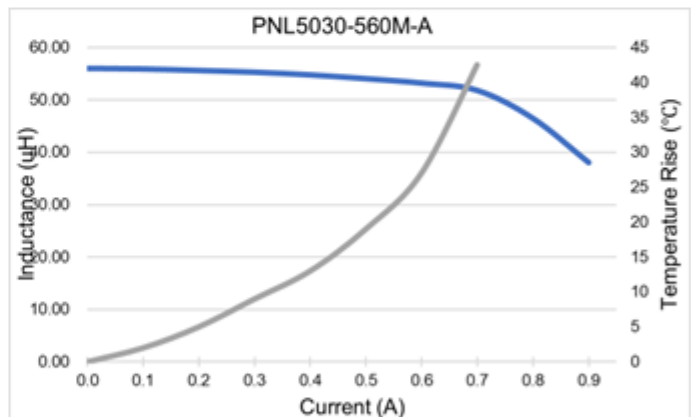
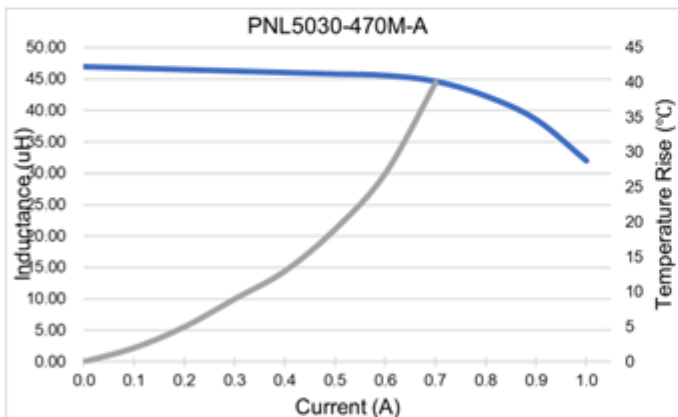
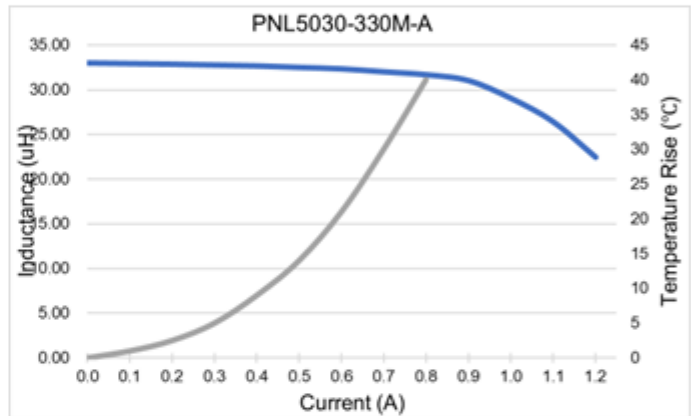
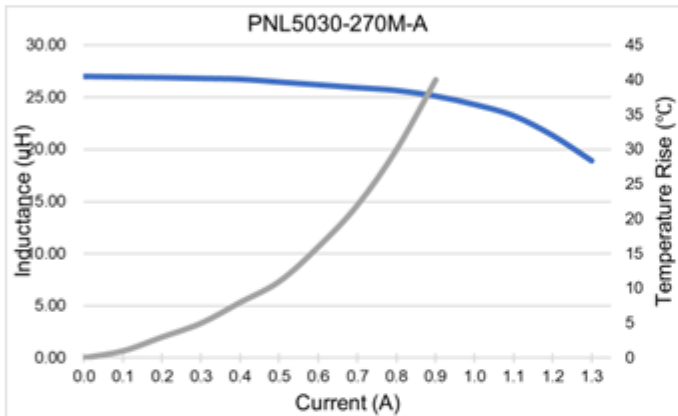
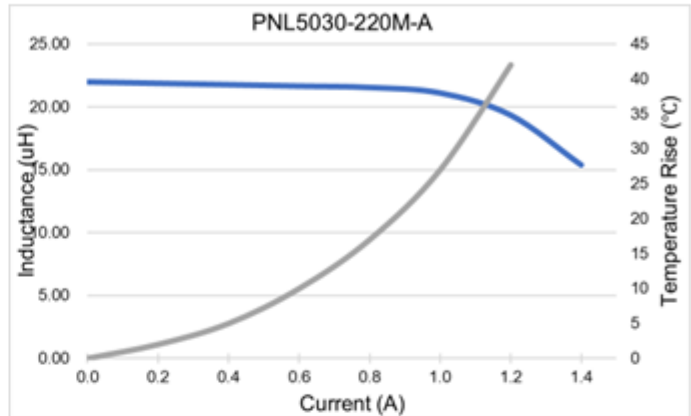
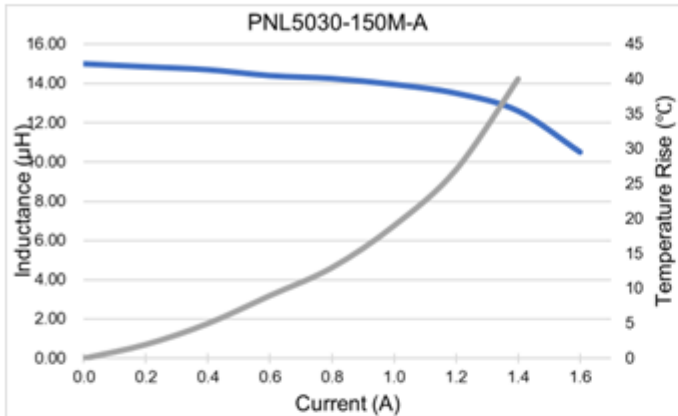




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### Performance Graph

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— Temperature Rise (°C)





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