



PNL3021-SERIES-A

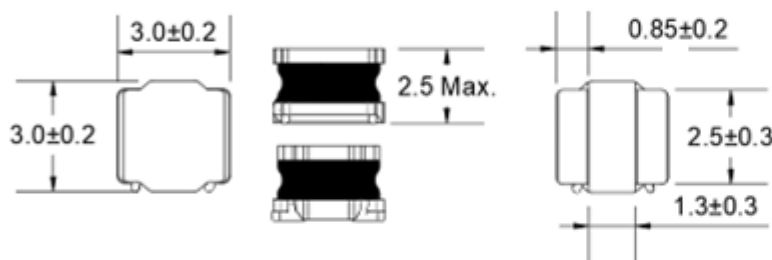
Applications

- 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

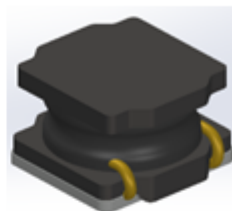
Environmental data

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

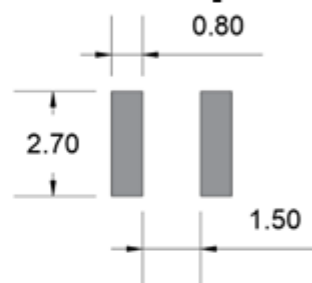
Dimensions [Unit : mm]



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.
PNL3021-1R0N-A	1.0±30%	43	56	4	2
PNL3021-1R2N-A	1.2±30%	47	61	3.9	2
PNL3021-1R5N-A	1.5±30%	47	61	3.8	1.95
PNL3021-2R2N-A	2.2±30%	70	91	3.2	1.85
PNL3021-3R3M-A	3.3±20%	92	120	2.7	1.5
PNL3021-4R7M-A	4.7±20%	120	156	2.2	1.2
PNL3021-6R8M-A	6.8±20%	160	208	2	1
PNL3021-8R2M-A	8.2±20%	230	299	1.9	0.96
PNL3021-100M-A	10.0±20%	240	312	1.4	0.93
PNL3021-120M-A	12.0±20%	330	429	1.4	0.9
PNL3021-150M-A	15.0±20%	376	489	1.3	0.86
PNL3021-220M-A	22.0±20%	530	689	1	0.55
PNL3021-330M-A	33.0±20%	800	1,040	0.78	0.45
PNL3021-470M-A	47.0±20%	1,000	1,300	0.7	0.4
PNL3021-560M-A	56.0±20%	1,700	2,210	0.65	0.32
PNL3021-820M-A	82.0±20%	2,100	2,730	0.45	0.28
PNL3021-101M-A	100.0±20%	2,420	3,146	0.4	0.26
PNL3021-151M-A	150.0±20%	4,000	5,200	0.4	0.16

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)

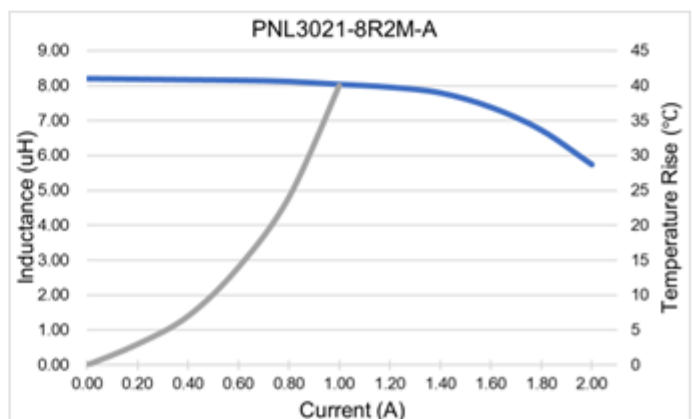
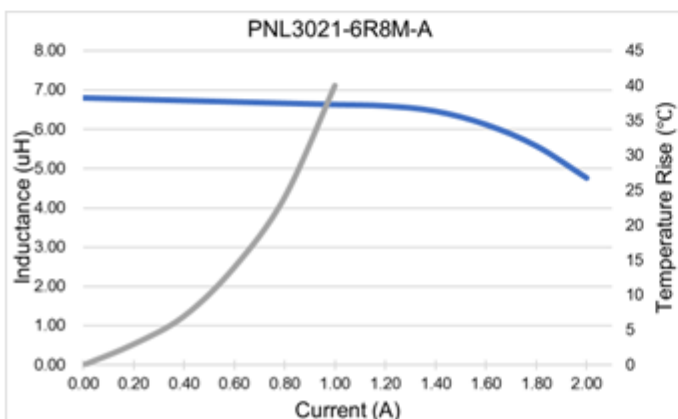
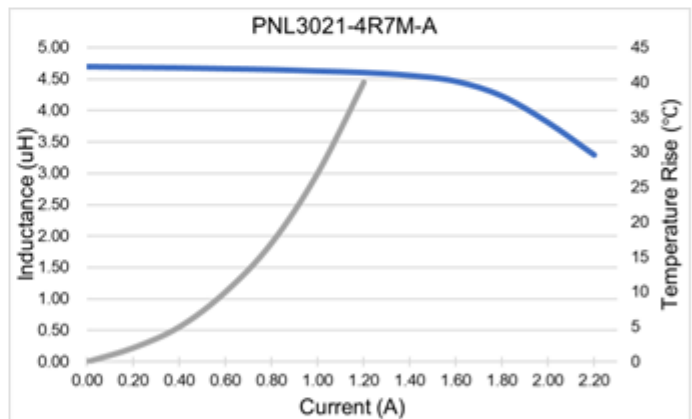
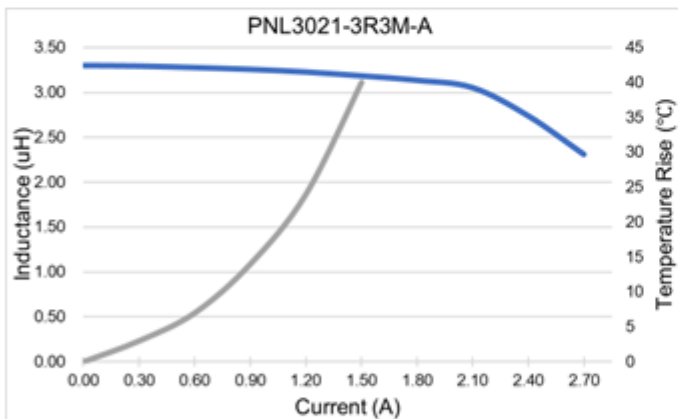
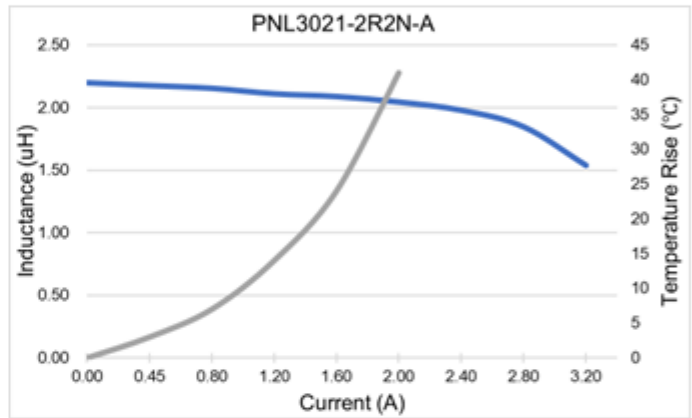
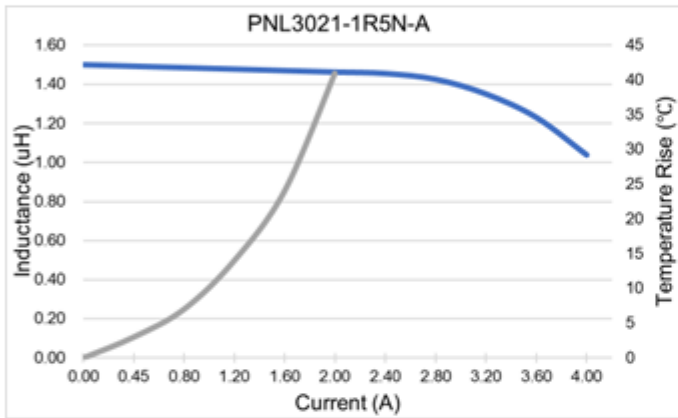
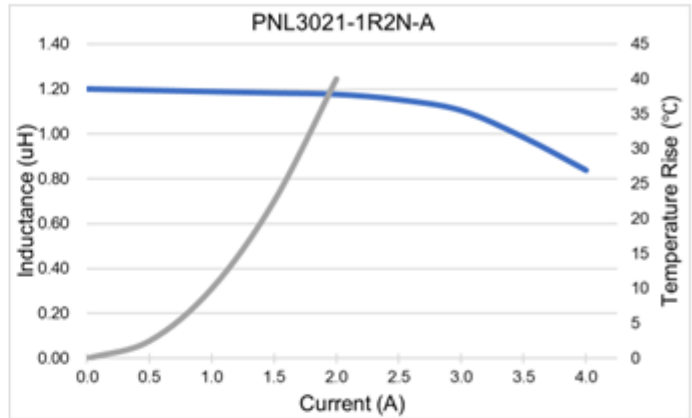
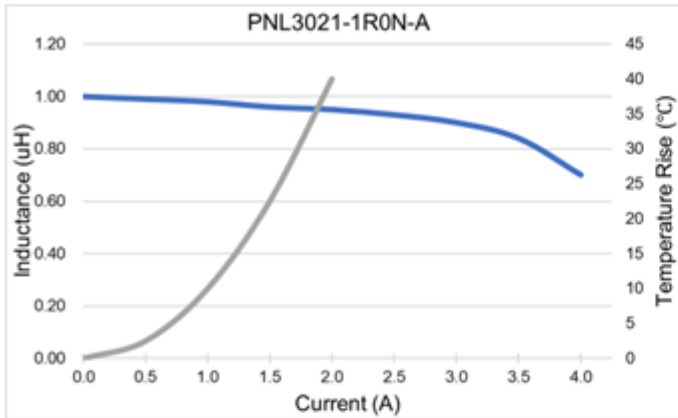
- * Reel : 3,000
- * Box : 18,000



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Performance Graph

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

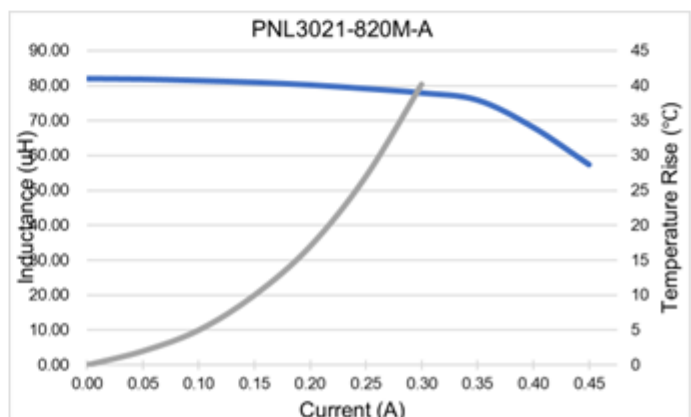
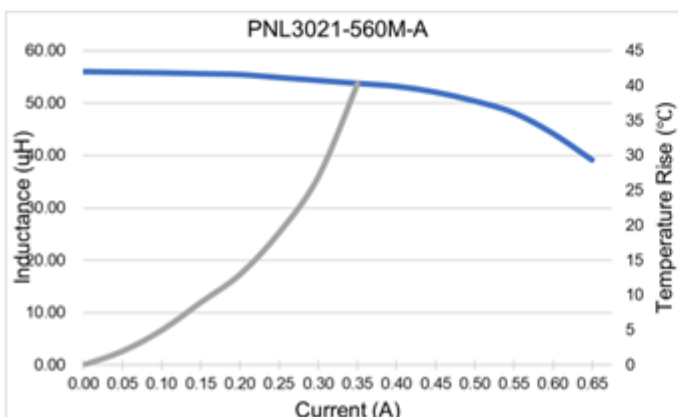
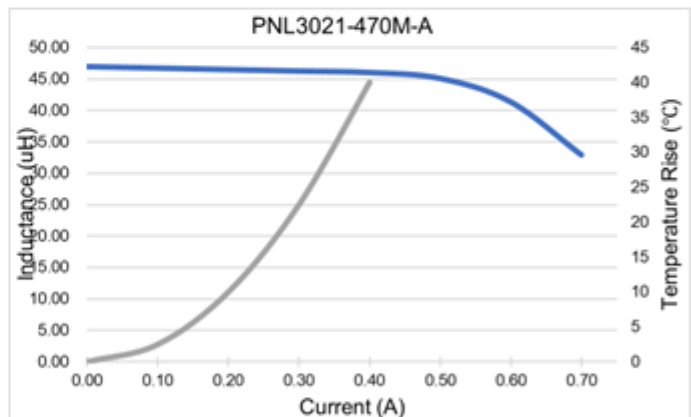
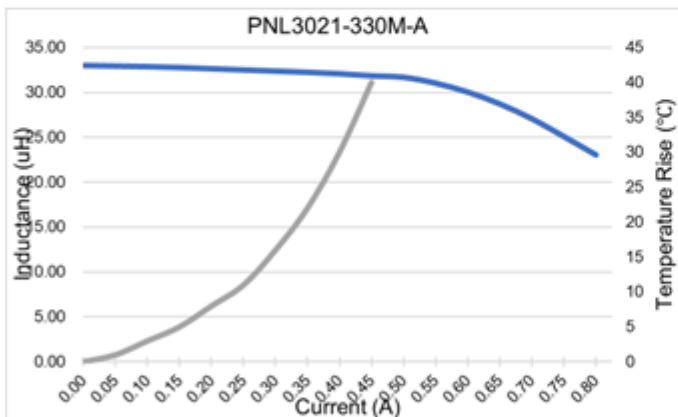
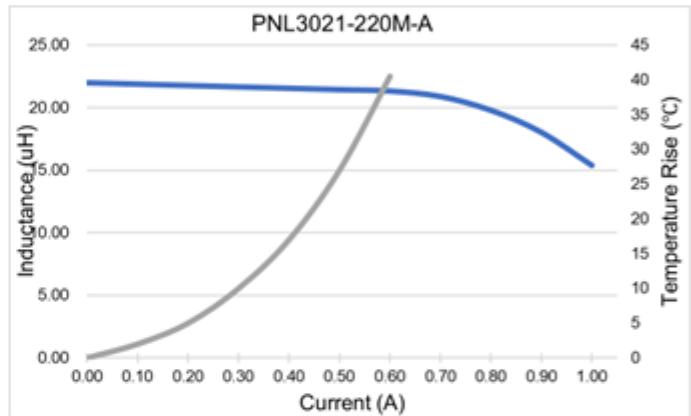
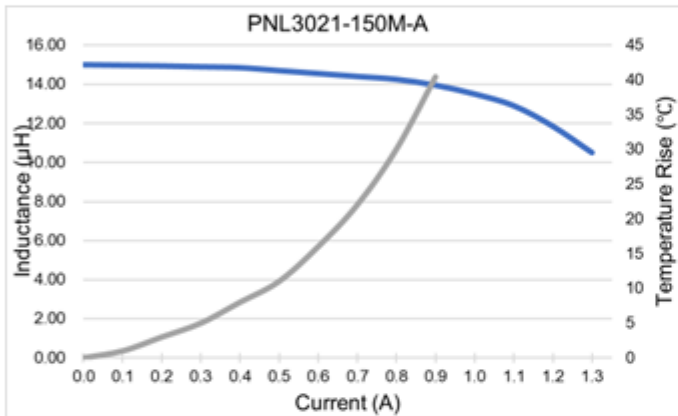
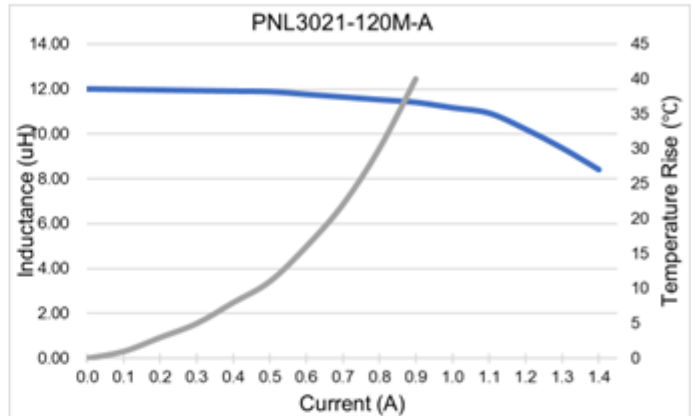
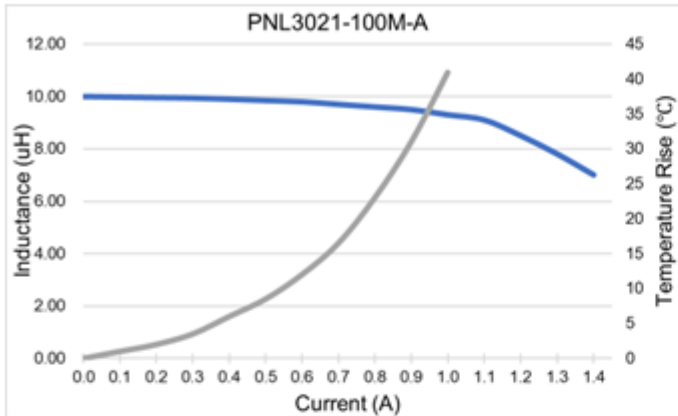




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Performance Graph

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





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