



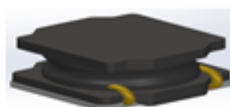
PNL4020M-SERIES-A



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

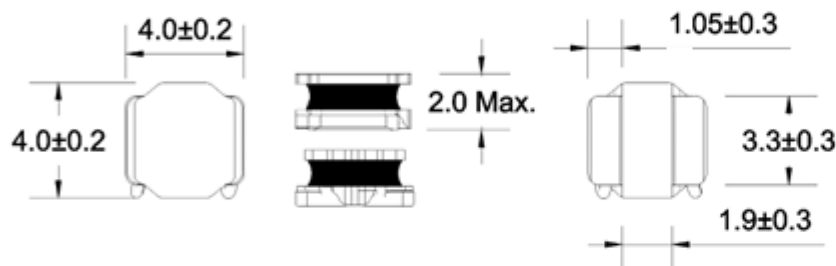
Picture



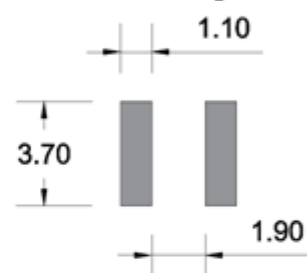
Environmental data

- 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) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL4020M-R24M-A	0.24±20%	13	17	14	6
PNL4020M-R33M-A	0.33±20%	15	20	13	5.9
PNL4020M-R47M-A	0.47±20%	16	22	11	5.9
PNL4020M-R68M-A	0.68±20%	19.2	24.5	9	5.8
PNL4020M-1R0M-A	1.0±20%	23	28	8.7	5.8
PNL4020M-1R5M-A	1.5±20%	32	38	7.7	5.2
PNL4020M-1R8M-A	1.8±20%	46	56	6.3	4
PNL4020M-2R2M-A	2.2±20%	46	56	6	4
PNL4020M-3R3M-A	3.3±20%	73	88	4.7	3.4
PNL4020M-3R9M-A	3.9±20%	78	100	4.1	3
PNL4020M-4R7M-A	4.7±20%	95	115	4	2.85
PNL4020M-6R8M-A	6.8±20%	130	160	3	2.4
PNL4020M-8R2M-A	8.2±20%	175	220	2	2.1
PNL4020M-100M-A	10.0±20%	190	220	2.8	2
PNL4020M-120M-A	12.0±20%	220	286	2.3	1.5
PNL4020M-150M-A	15.0±20%	305	400	2.1	1
PNL4020M-220M-A	22.0±20%	415	545	1.3	0.95
PNL4020M-330M-A	33.0±20%	650	850	1.2	0.7
PNL4020M-470M-A	47.0±20%	950	1,200	1.1	0.56

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)

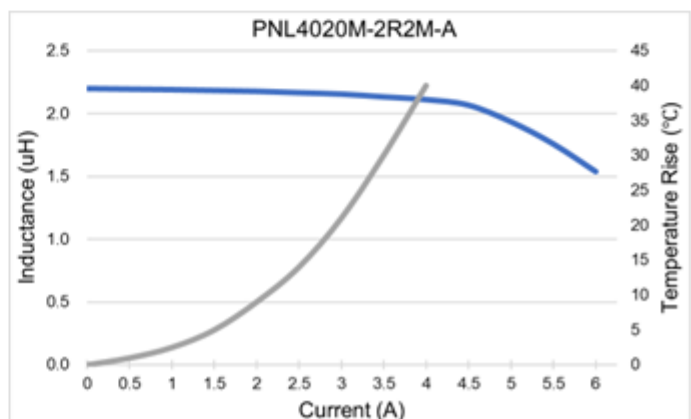
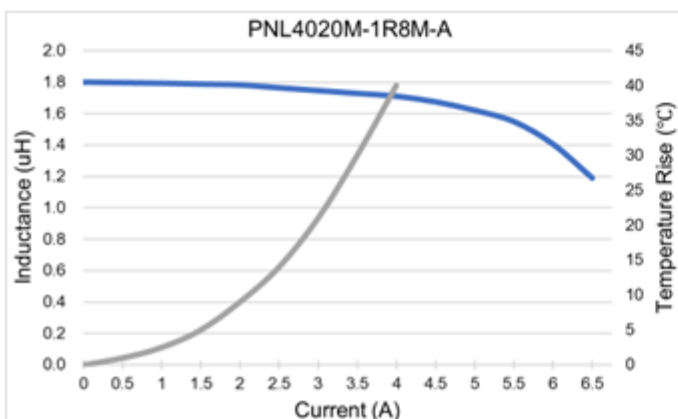
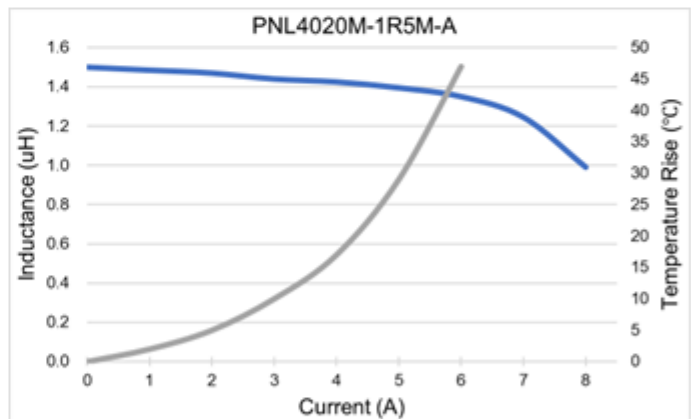
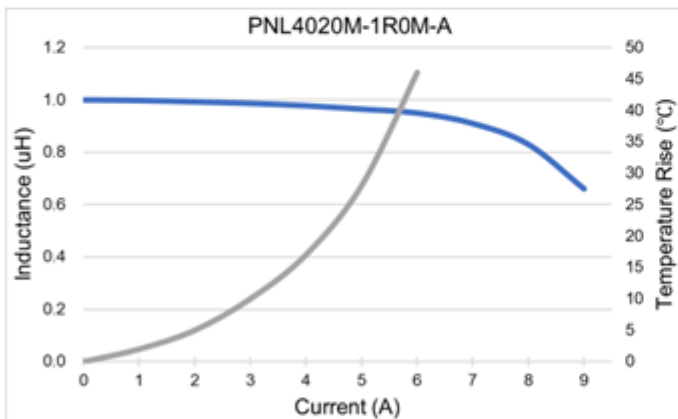
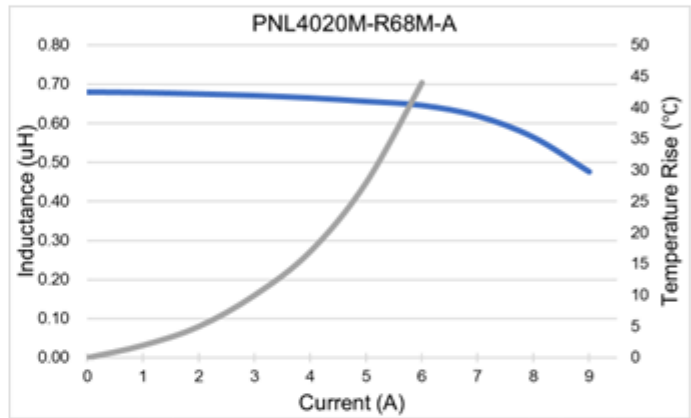
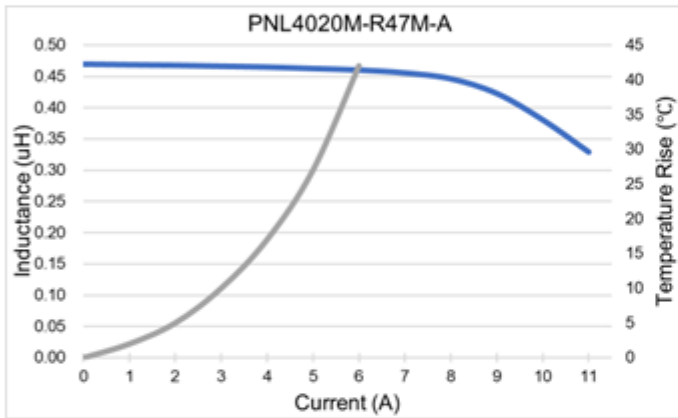
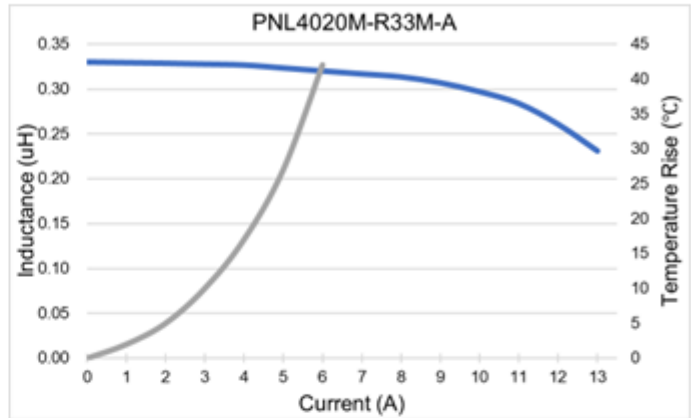
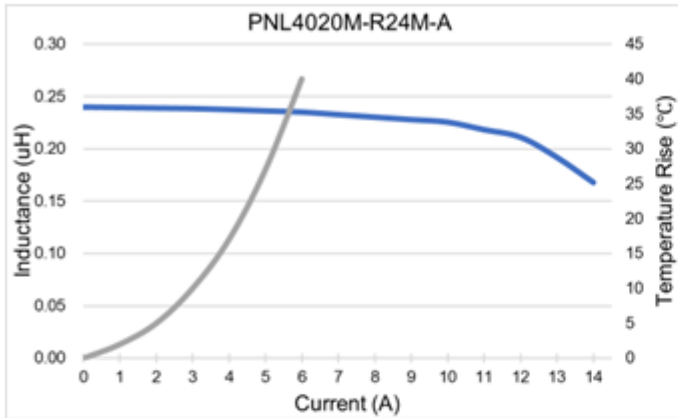
- * Reel : 3,000
- * Box : 18,000



PNL4020M-SERIES-A

Performance Graph

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

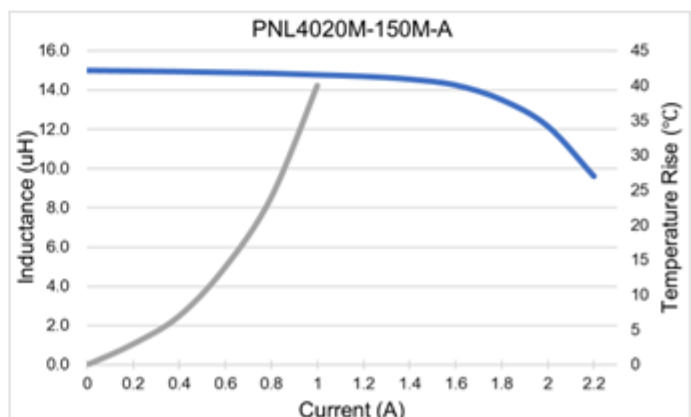
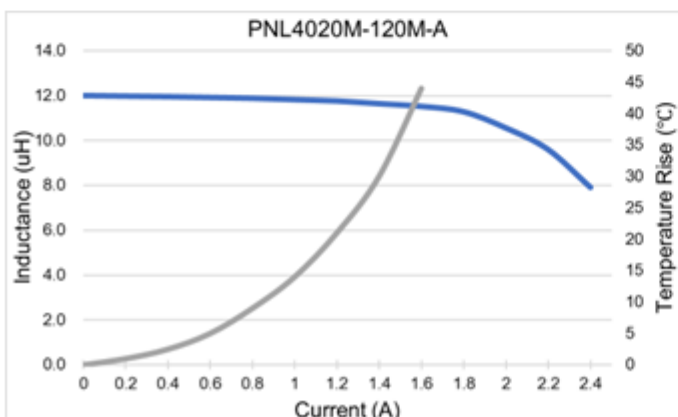
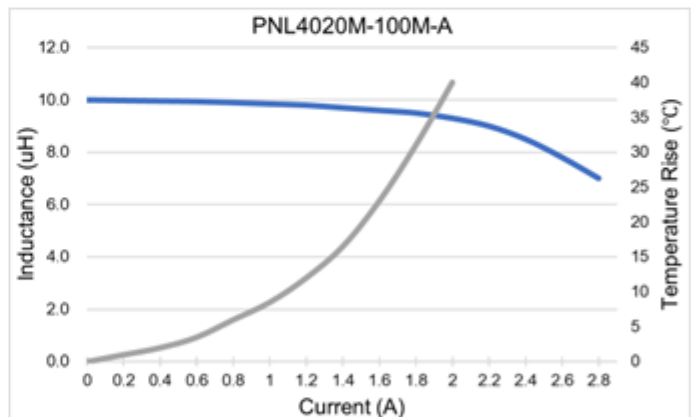
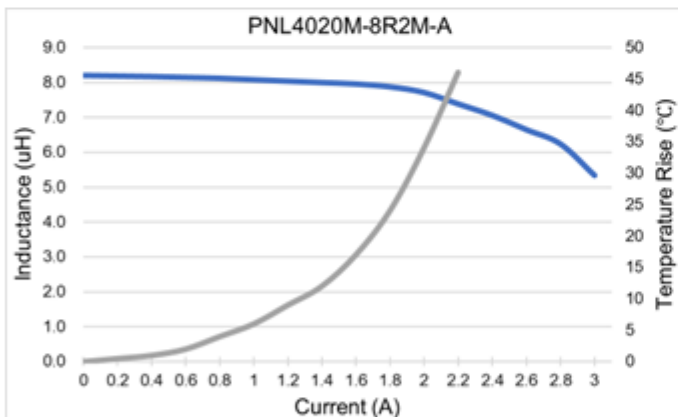
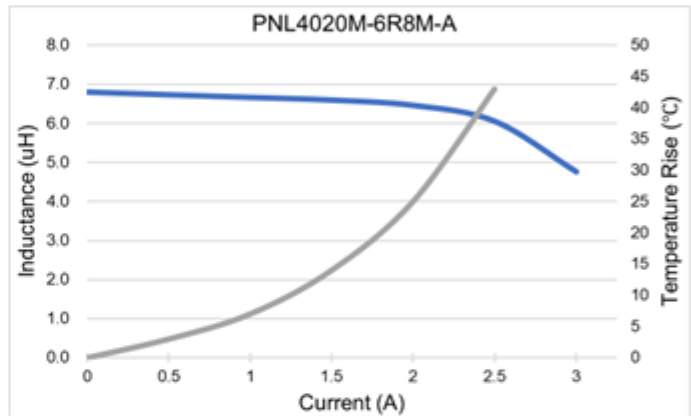
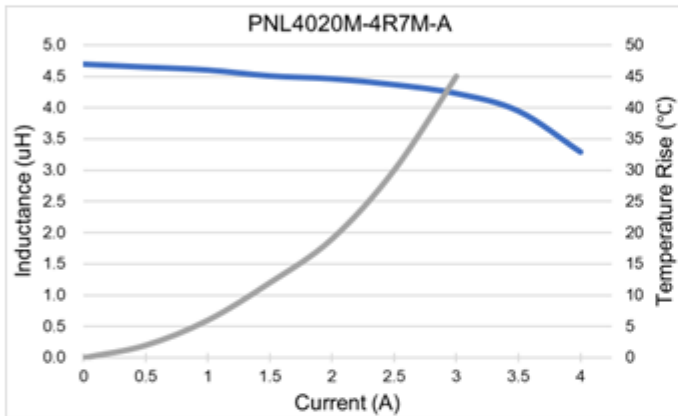
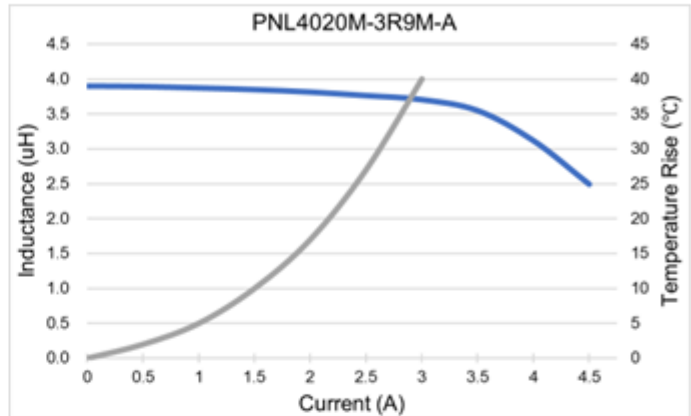
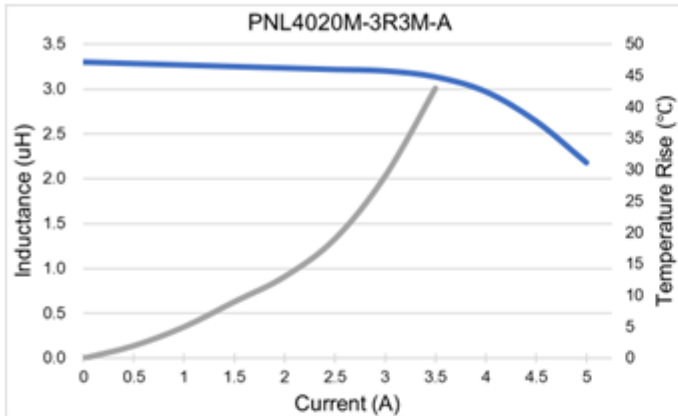




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— Temperature Rise (°C)





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