



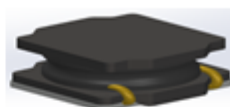
PNL4020-SERIES-A



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



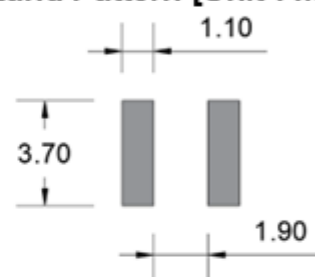
Environmental data

- 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.
PNL4020-R33N-A	0.33±30%	13	17	7.5	3.3
PNL4020-R47N-A	0.47±30%	18	23	7.5	3.3
PNL4020-R68N-A	0.68±30%	24	31	7	3.2
PNL4020-1R0N-A	1.0±30%	28	36	5.1	2.15
PNL4020-1R5N-A	1.5±30%	35	46	4.45	1.98
PNL4020-1R8N-A	1.8±30%	45	59	4	1.9
PNL4020-2R2M-A	2.2±20%	45	59	3.4	1.85
PNL4020-2R7M-A	2.7±20%	53	69	3.3	1.6
PNL4020-3R3M-A	3.3±20%	70	91	3.2	1.4
PNL4020-4R7M-A	4.7±20%	80	104	2.35	1.34
PNL4020-6R8M-A	6.8±20%	125	163	2	1.04
PNL4020-8R2M-A	8.2±20%	150	195	1.75	1
PNL4020-100M-A	10.0±20%	165	215	1.6	0.9
PNL4020-120M-A	12.0±20%	175	228	1.5	0.88
PNL4020-150M-A	15.0±20%	230	299	1.35	0.77
PNL4020-220M-A	22.0±20%	350	455	1.05	0.62
PNL4020-330M-A	33.0±20%	500	650	0.85	0.49
PNL4020-470M-A	47.0±20%	710	923	0.74	0.44
PNL4020-560M-A	56.0±20%	800	1,040	0.68	0.4
PNL4020-680M-A	68.0±20%	1,250	1,625	0.6	0.35

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)

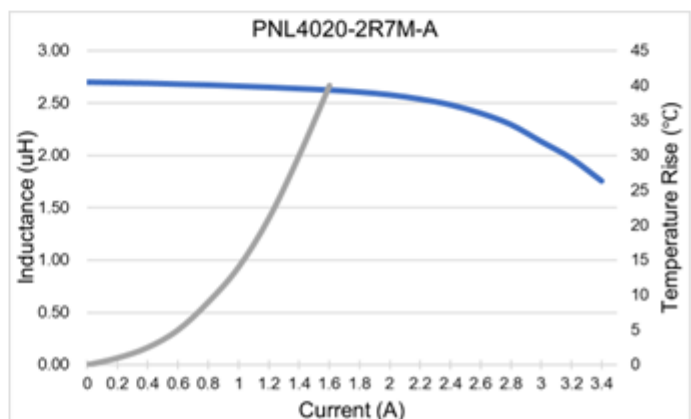
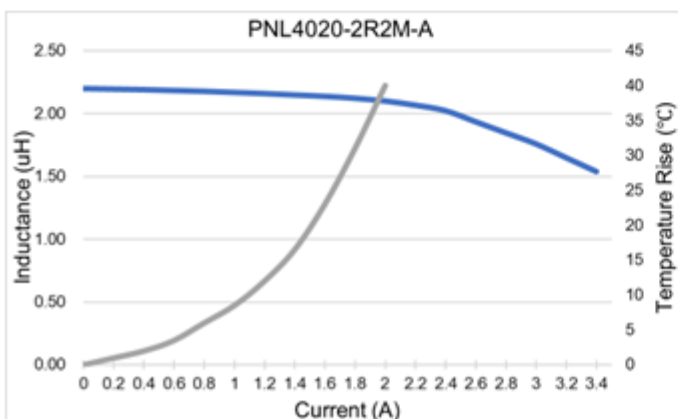
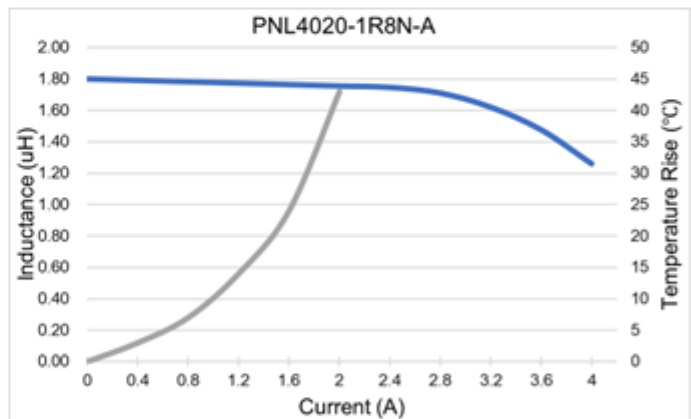
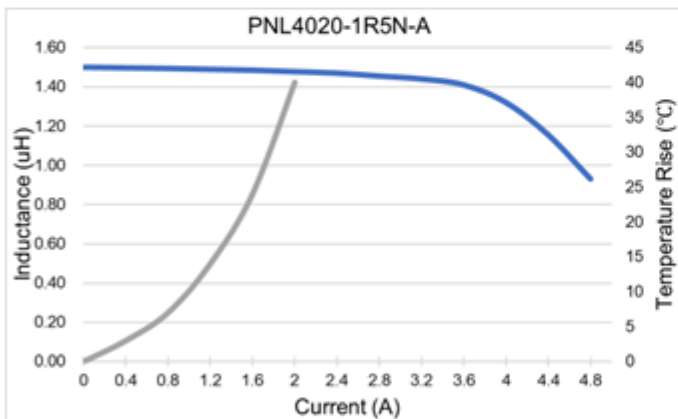
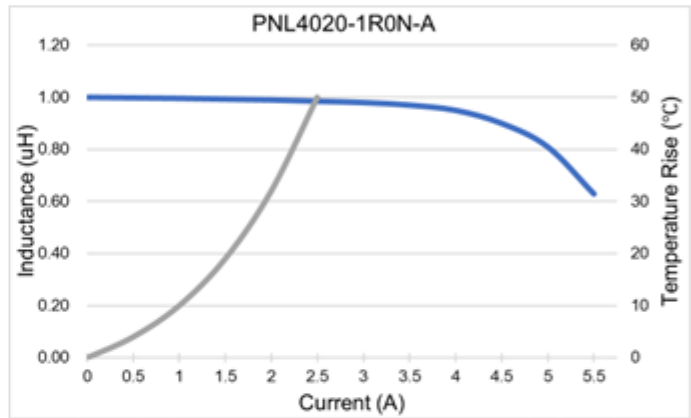
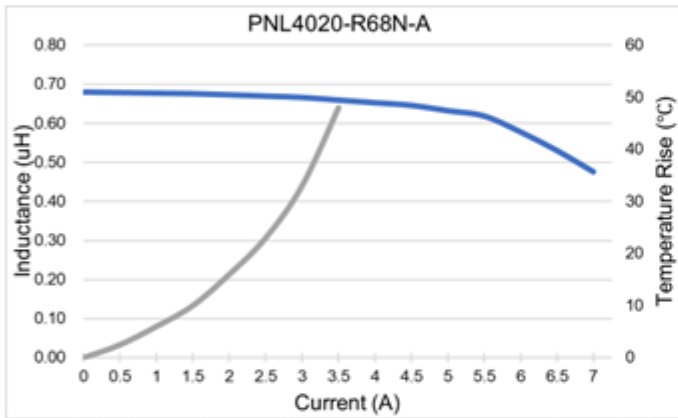
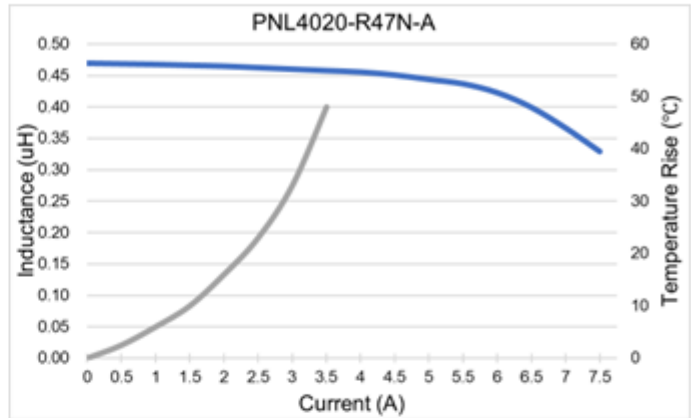
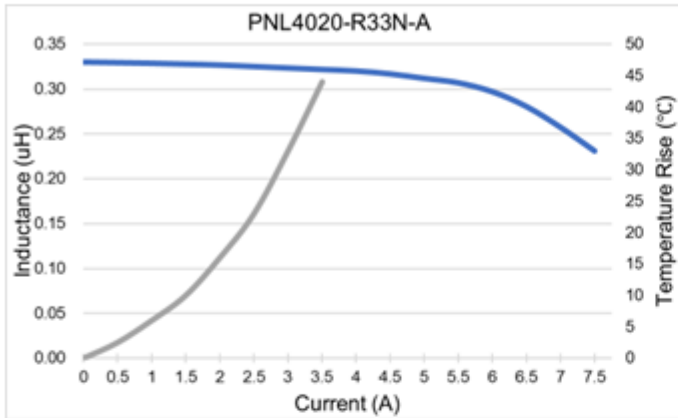
- * Reel : 3,000
- * Box : 18,000



PNL4020-SERIES-A

Performance Graph

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

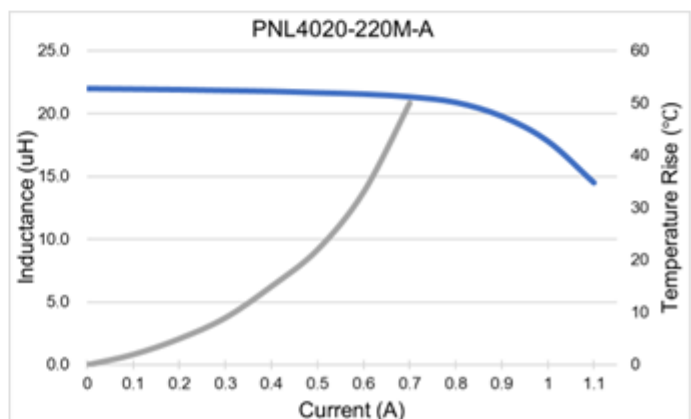
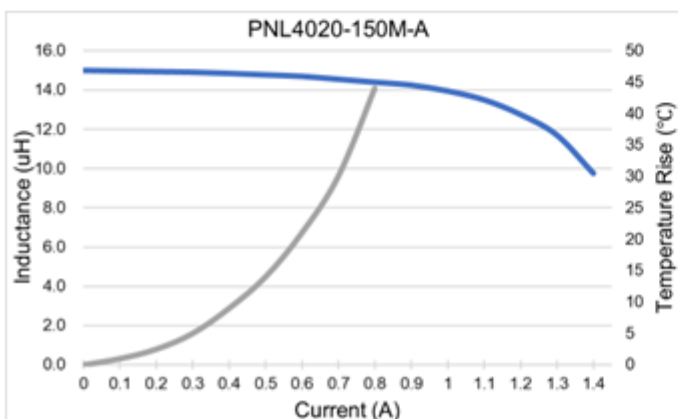
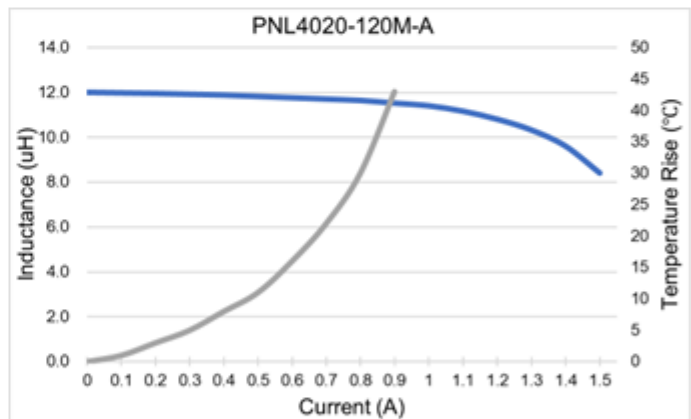
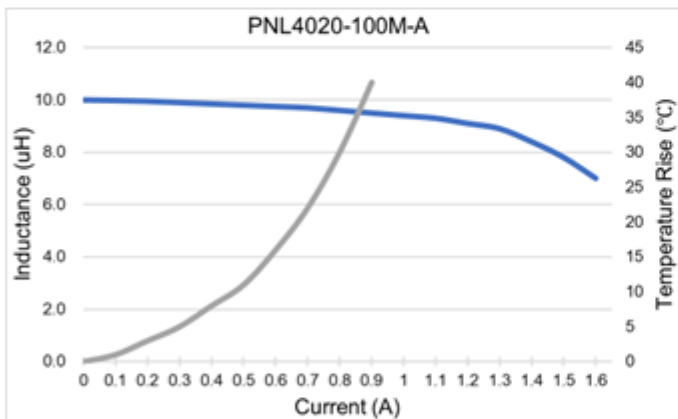
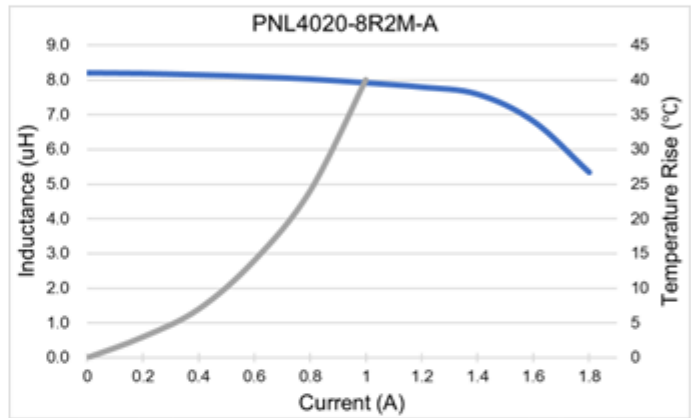
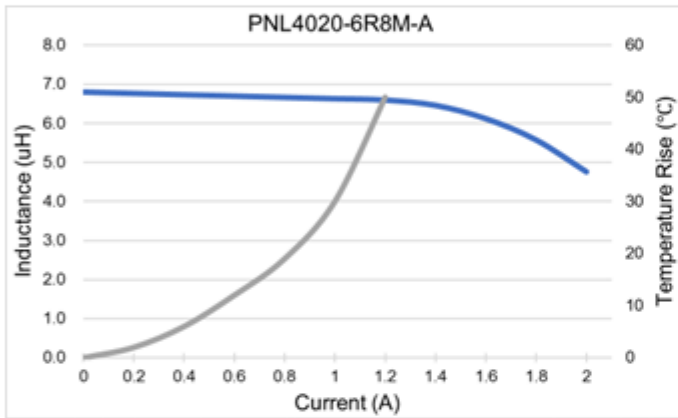
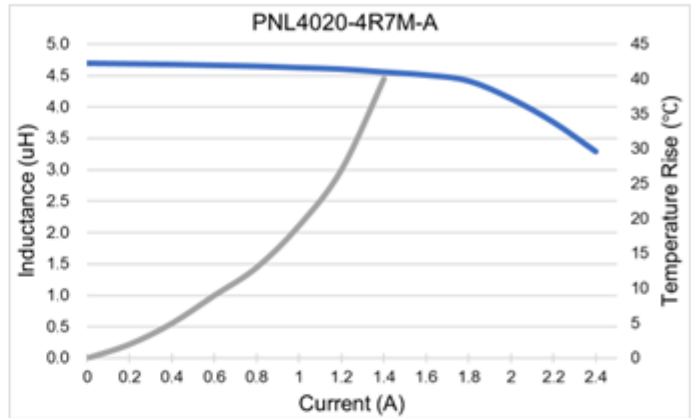
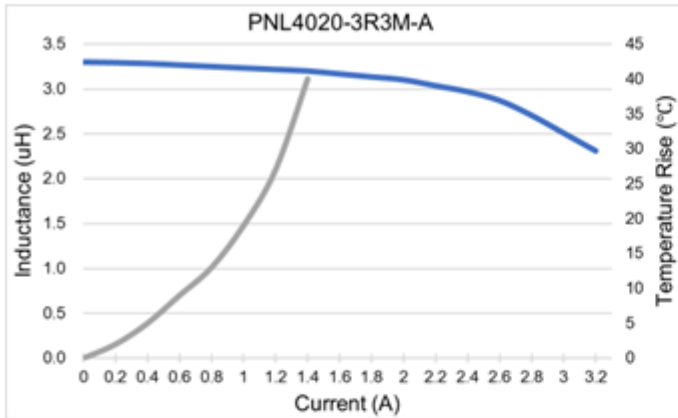




PNL4020-SERIES-A

Performance Graph

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





PNL4020-SERIES-A

Performance Graph

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

