



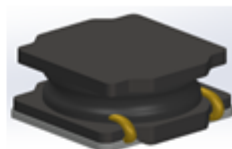
PNL3012-SERIES-A



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

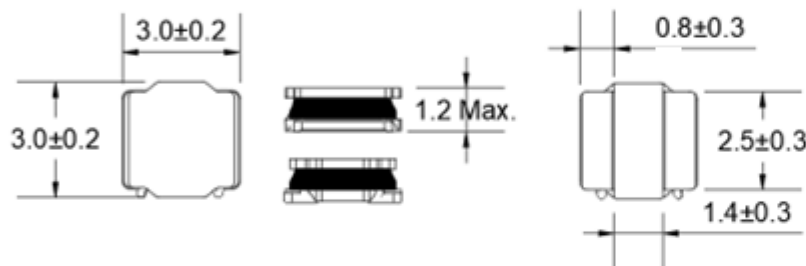
Picture



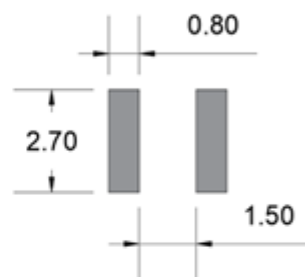
Environmental data

- 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.
PNL3012-R33N-A	0.33±30%	21	27	3	2.9
PNL3012-R47N-A	0.47±30%	33	43	2.2	2.2
PNL3012-R82N-A	0.82±30%	40	52	2.05	2.1
PNL3012-1R0N-A	1.0±30%	48	62	1.9	2
PNL3012-1R5N-A	1.5±30%	55	72	1.62	1.85
PNL3012-1R8N-A	1.8±30%	68	88	1.5	1.7
PNL3012-2R2M-A	2.2±20%	75	98	1.2	1.55
PNL3012-3R3M-A	3.3±20%	100	130	1.05	1.35
PNL3012-4R7M-A	4.7±20%	120	156	0.9	1.25
PNL3012-5R6M-A	5.6±20%	160	208	0.8	1.1
PNL3012-6R8M-A	6.8±20%	190	247	0.75	1
PNL3012-100M-A	10.0±20%	265	345	0.6	0.89
PNL3012-150M-A	15.0±20%	430	559	0.45	0.72
PNL3012-220M-A	22.0±20%	630	819	0.42	0.55
PNL3012-270M-A	27.0±20%	800	1,040	0.36	0.46
PNL3012-330M-A	33.0±20%	875	1,138	0.35	0.45
PNL3012-470M-A	47.0±20%	1,450	1,885	0.27	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)

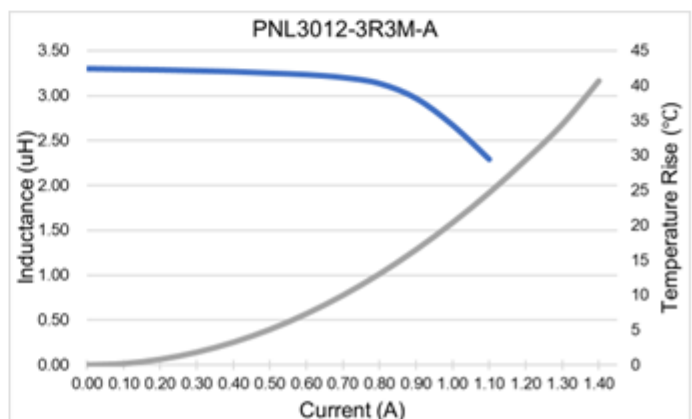
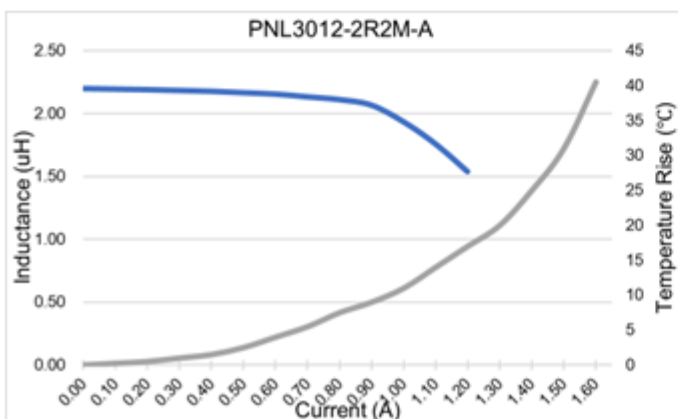
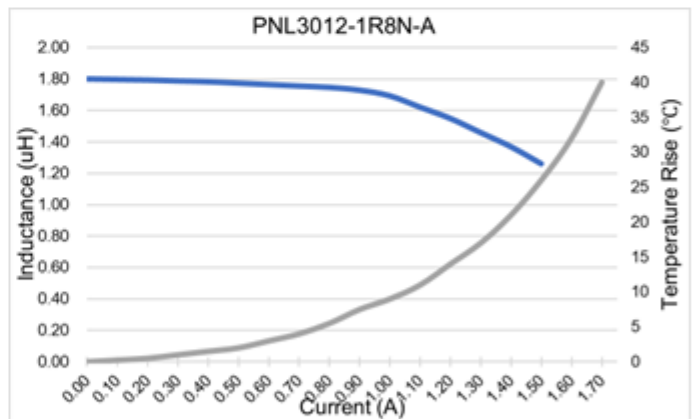
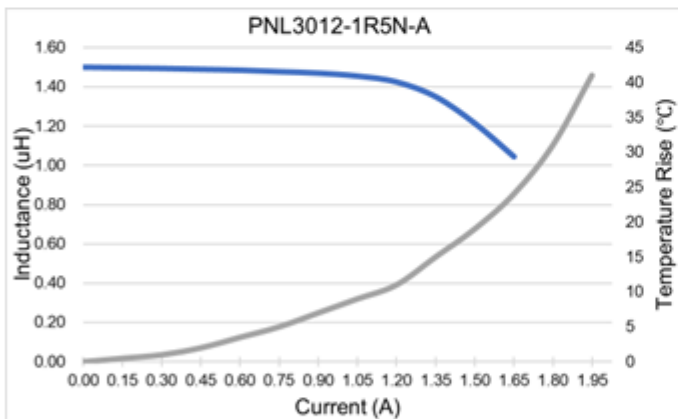
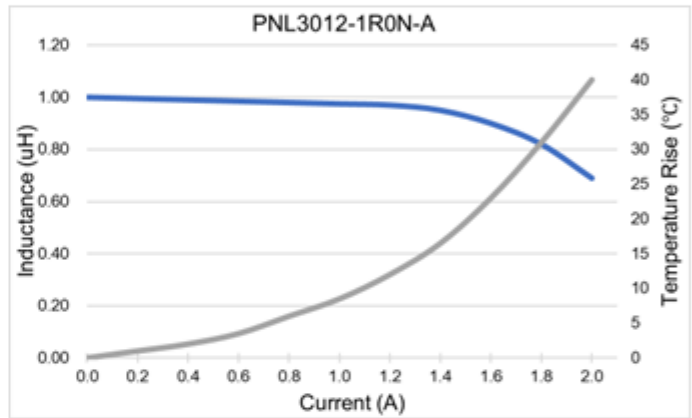
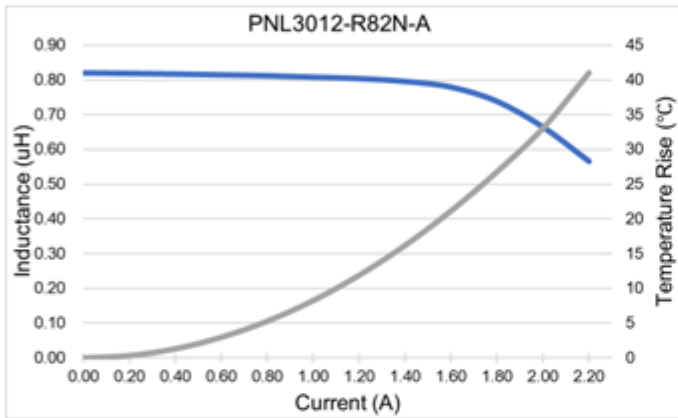
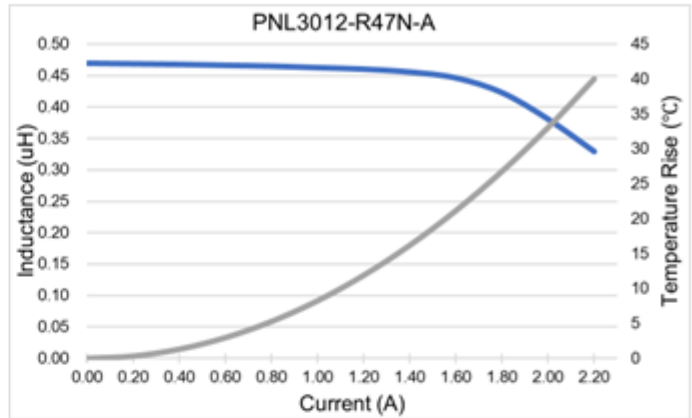
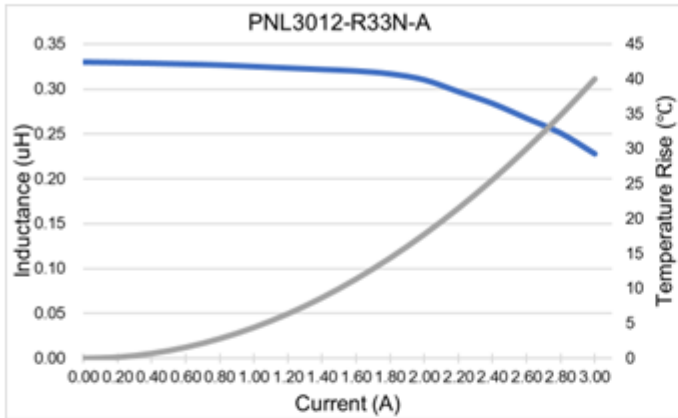
- * Reel : 2,000
- * Box : 100,000



PNL3012-SERIES-A

Performance Graph

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

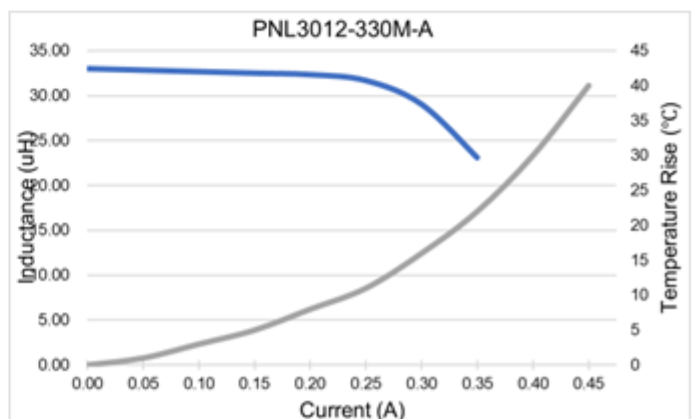
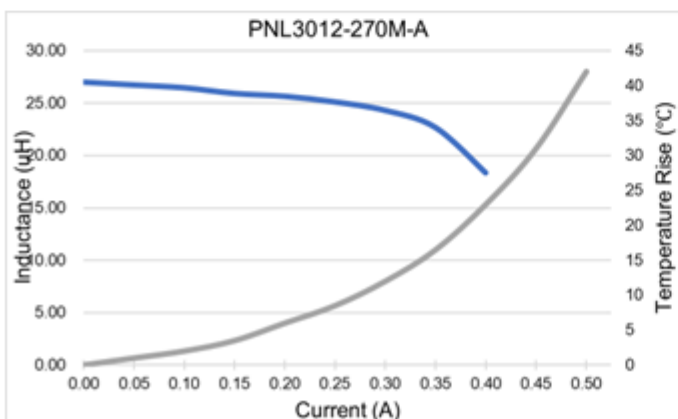
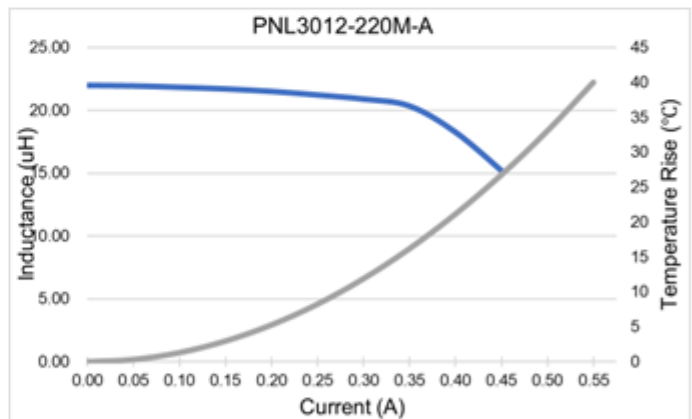
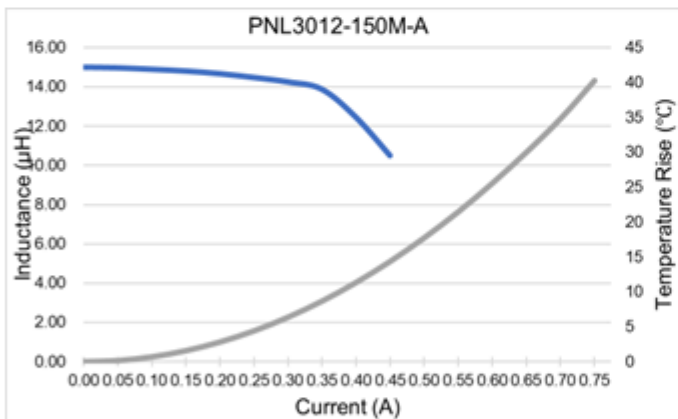
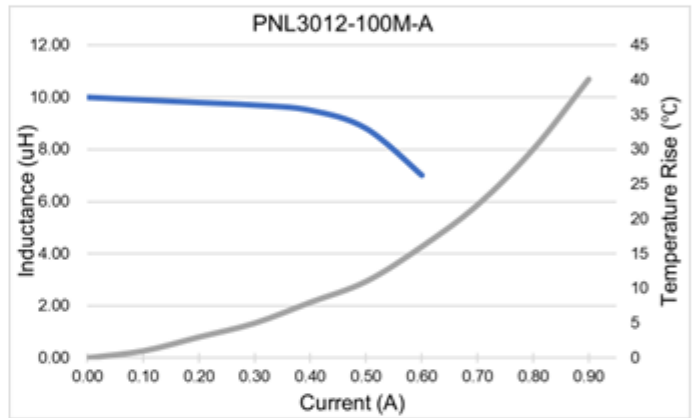
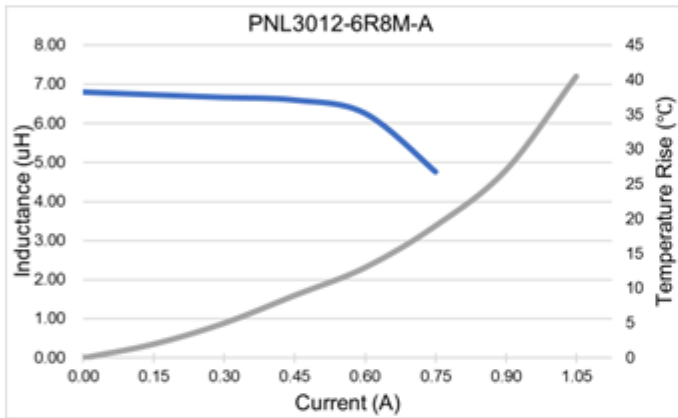
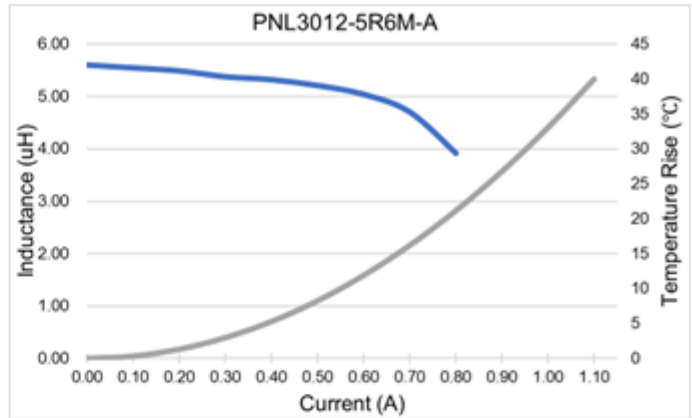
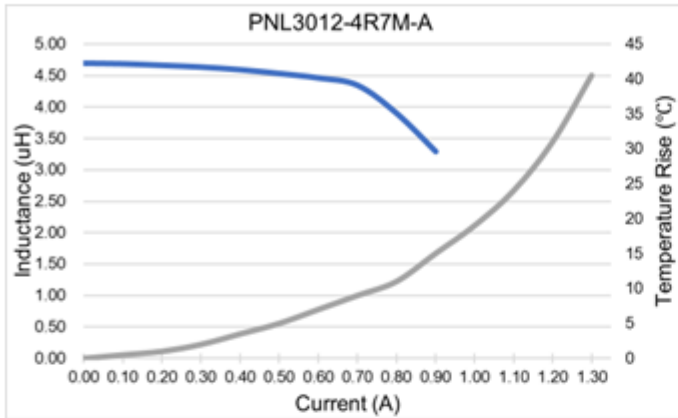




PNL3012-SERIES-A

Performance Graph

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





PNL3012-SERIES-A

■ Performance Graph

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

