



PNL4012-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

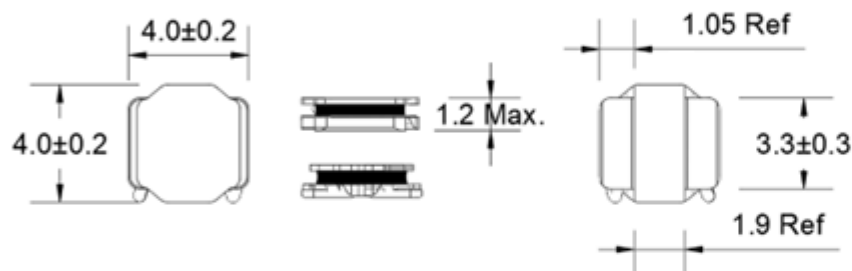
Picture



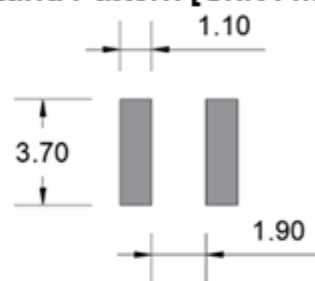
Environmental data

- 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.
PNL4012-R24N-A	0.24±30%	20	33	4.8	2.9
PNL4012-R47N-A	0.47±30%	31	52	3.9	2.4
PNL4012-1R0N-A	1.0±30%	42	72	2.8	2
PNL4012-1R5N-A	1.5±30%	51	85	2.2	1.8
PNL4012-2R2M-A	2.2±20%	75	130	1.76	1.32
PNL4012-3R3M-A	3.3±20%	75	130	1.35	1.32
PNL4012-4R7M-A	4.7±20%	125	212	1.15	1
PNL4012-5R6M-A	5.6±20%	150	241	1.15	1
PNL4012-6R8M-A	6.8±20%	175	296	1	0.85
PNL4012-100M-A	10.0±20%	180	304	0.85	0.8
PNL4012-150M-A	15.0±20%	310	520	0.68	0.65
PNL4012-180M-A	18.0±20%	430	715	0.6	0.55
PNL4012-220M-A	22.0±20%	530	897	0.5	0.49
PNL4012-330M-A	33.0±20%	780	1,300	0.5	0.42
PNL4012-470M-A	47.0±20%	1,100	1,859	0.35	0.37

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)

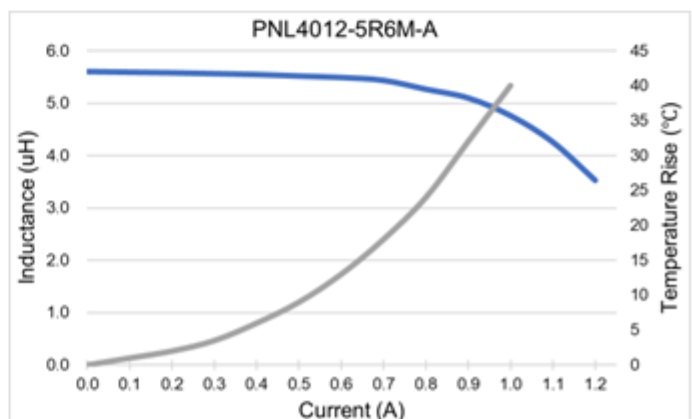
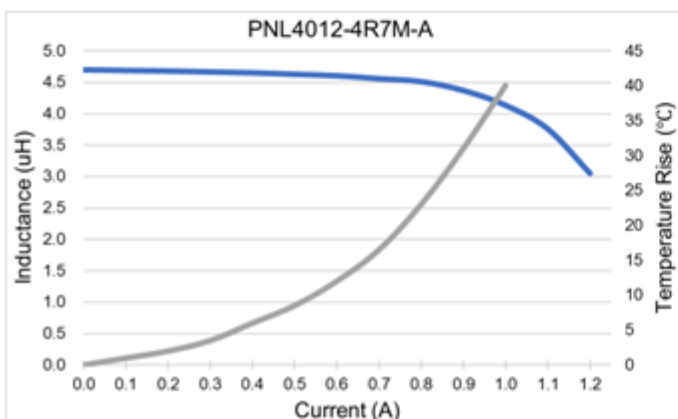
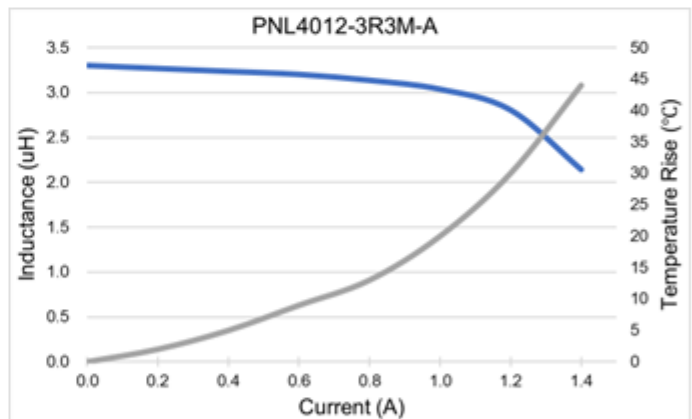
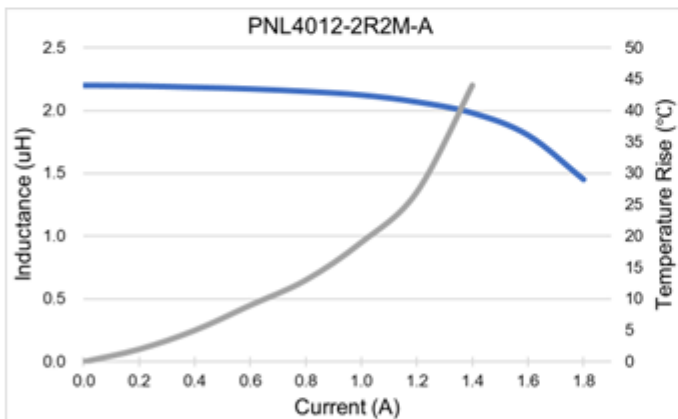
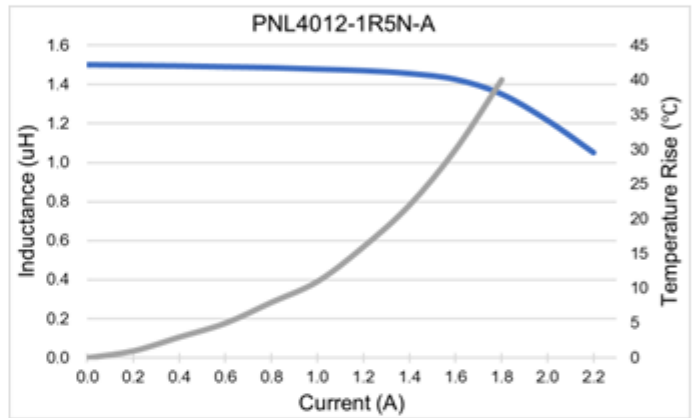
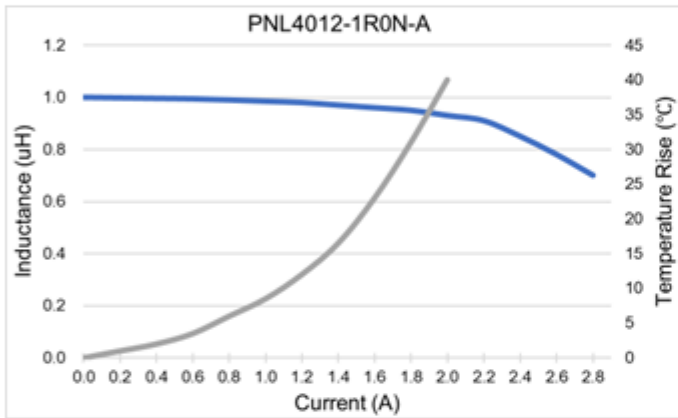
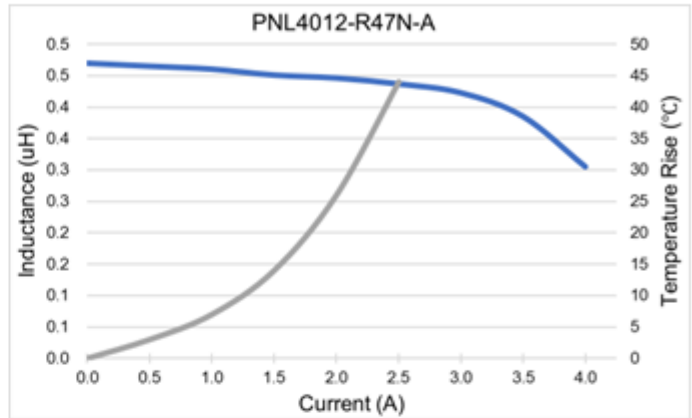
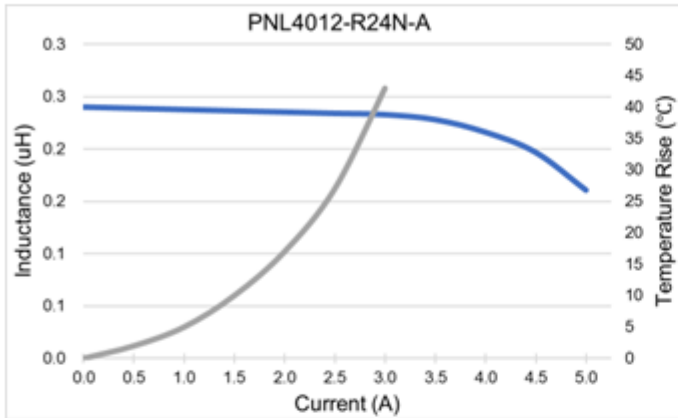
- * Reel : 4,500
- * Box : 27,000



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Performance Graph

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





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— Temperature Rise (°C)

