



PNL4012M-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

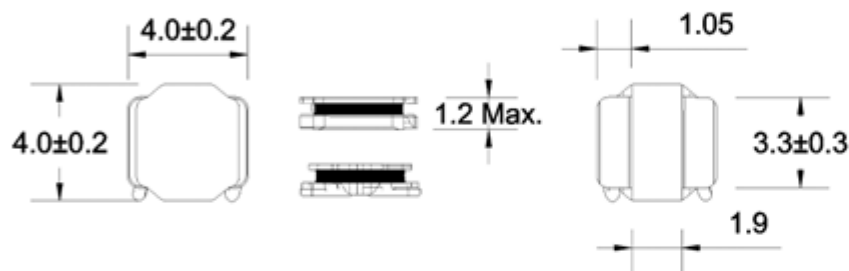
Picture



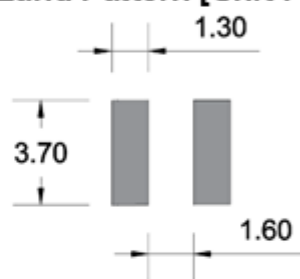
Environmental data

- 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.
PNL4012M-R47M-A	0.47±20%	33	41	7.2	3.8
PNL4012M-R56M-A	0.56±20%	40	50	6	3.2
PNL4012M-R68M-A	0.68±20%	42	55	5.2	3.2
PNL4012M-1R0M-A	1.0±20%	49	59	3.8	3
PNL4012M-1R5M-A	1.5±20%	60	75	3.8	2.8
PNL4012M-2R2M-A	2.2±20%	75	90	2.8	2.5
PNL4012M-3R3M-A	3.3±20%	106	130	2.8	2
PNL4012M-4R7M-A	4.7±20%	145	175	2.3	1.8
PNL4012M-6R8M-A	6.8±20%	190	230	1.6	1.5
PNL4012M-8R2M-A	8.2±20%	210	273	1.58	1.46
PNL4012M-100M-A	10.0±20%	300	360	1.55	0.85
PNL4012M-220M-A	22.0±20%	650	800	1	0.8

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)

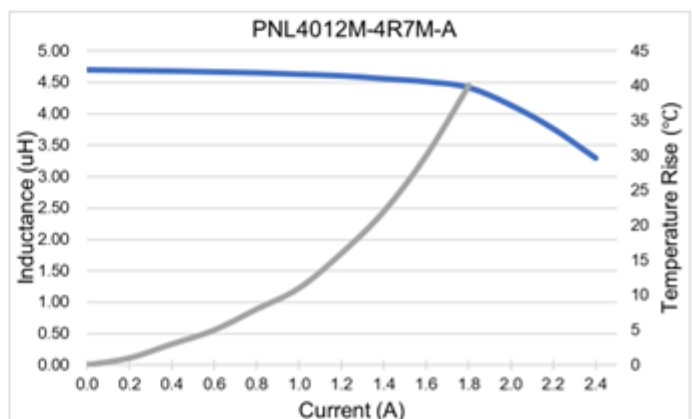
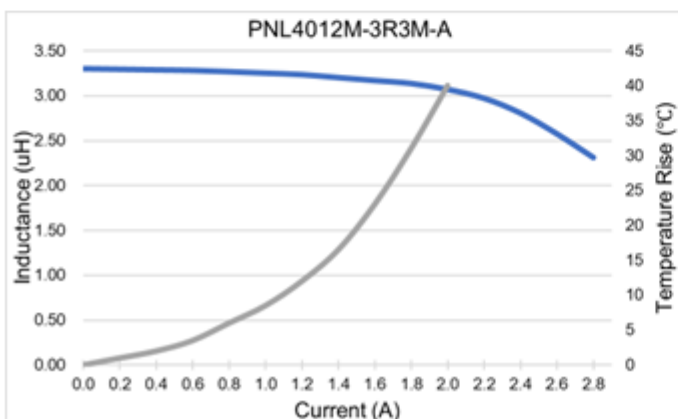
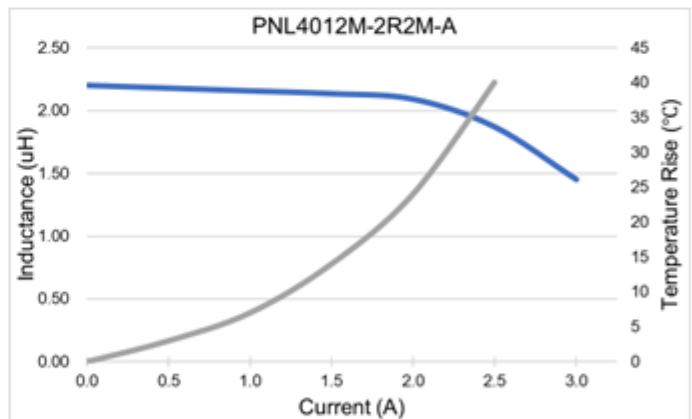
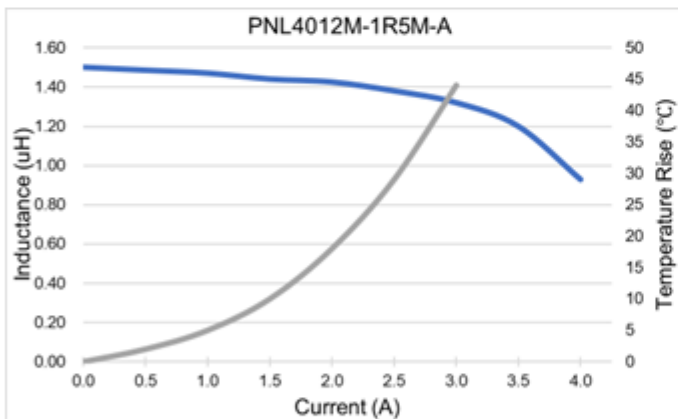
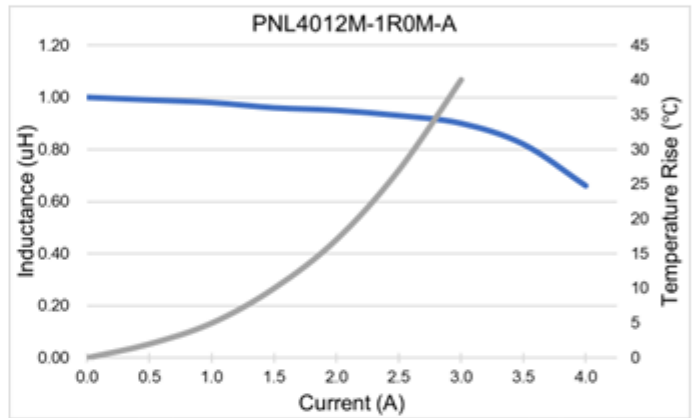
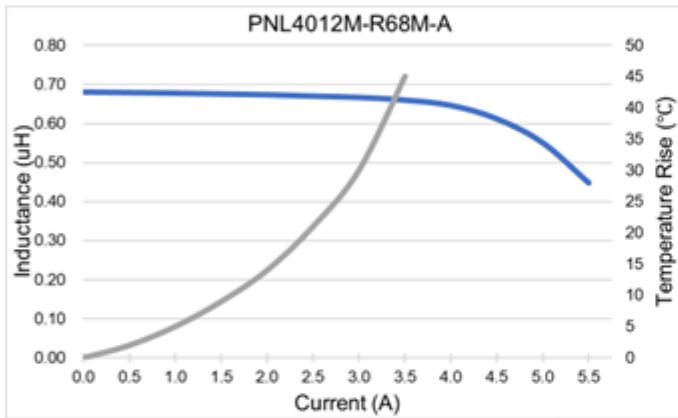
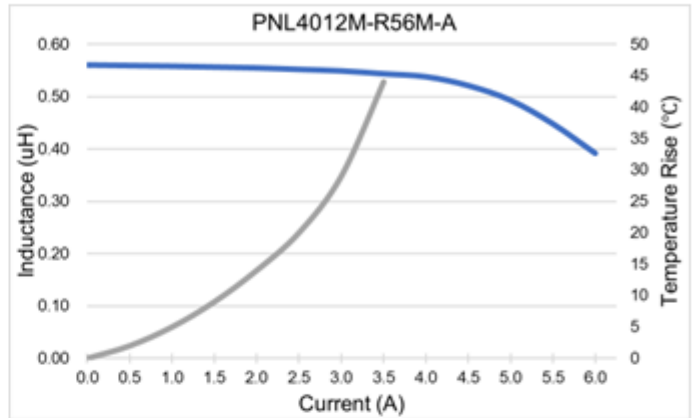
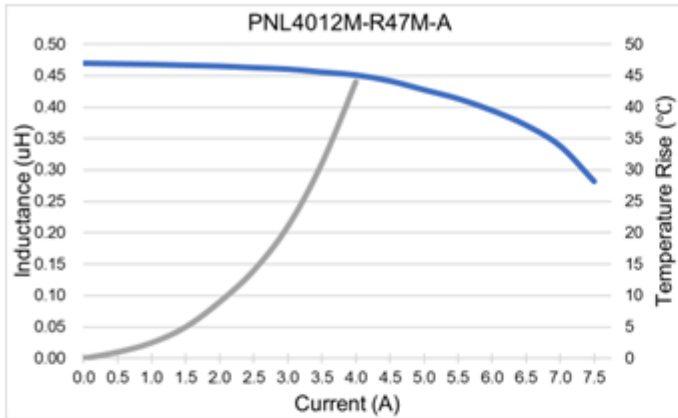
- * Reel : 4,500
- * Box : 27,000



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Performance Graph

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





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

