



PNL3020M-SERIES-A

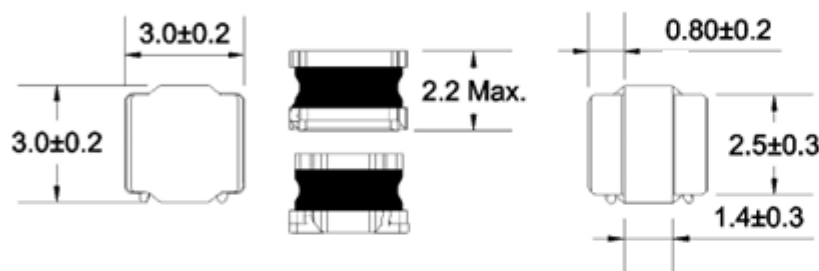
Applications

- 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

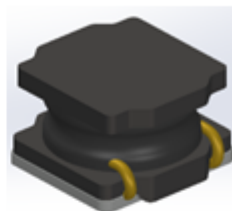
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

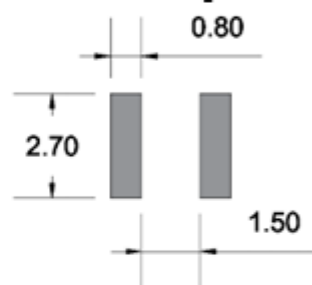
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL3020M-R24M-A	0.24±20%	16	20	12.5	6
PNL3020M-R33M-A	0.33±20%	19	25	12	5.8
PNL3020M-R47M-A	0.47±20%	19	25	11	5.5
PNL3020M-R68M-A	0.68±20%	32	42	10	5
PNL3020M-1R0M-A	1.0±20%	36	45	8	4.5
PNL3020M-1R2M-A	1.2±20%	41	53	7.5	3.8
PNL3020M-2R2M-A	2.2±20%	68	88.5	5.3	2.5
PNL3020M-3R3M-A	3.3±20%	99	128	4.6	2.3
PNL3020M-4R7M-A	4.7±20%	118	152	4	2.2
PNL3020M-100M-A	10.0±20%	310	403	2.3	1.5

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)

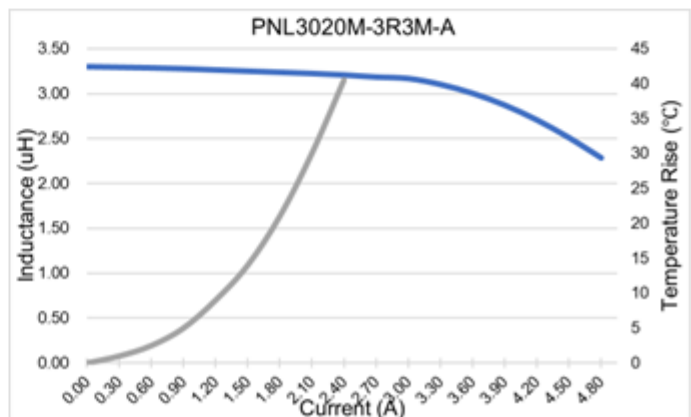
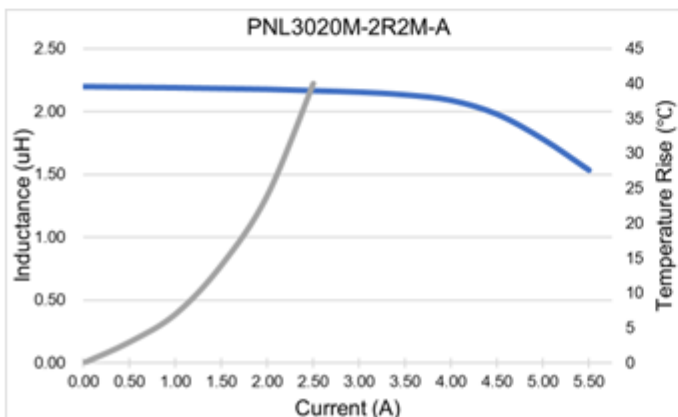
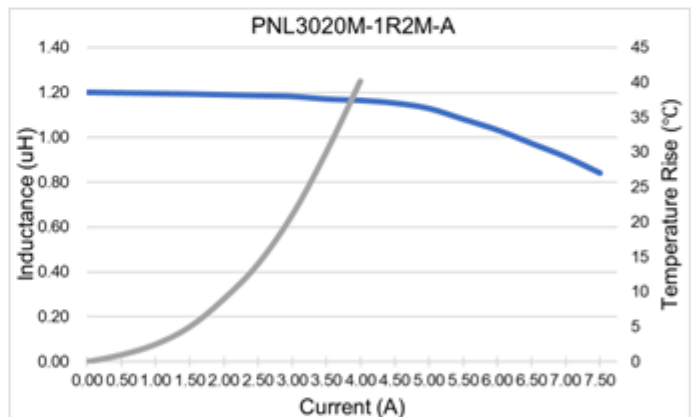
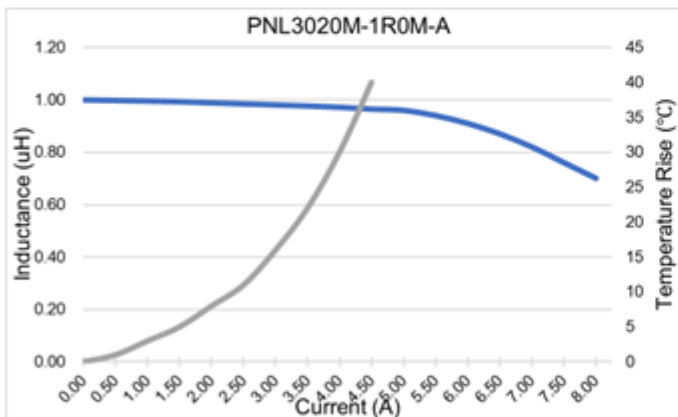
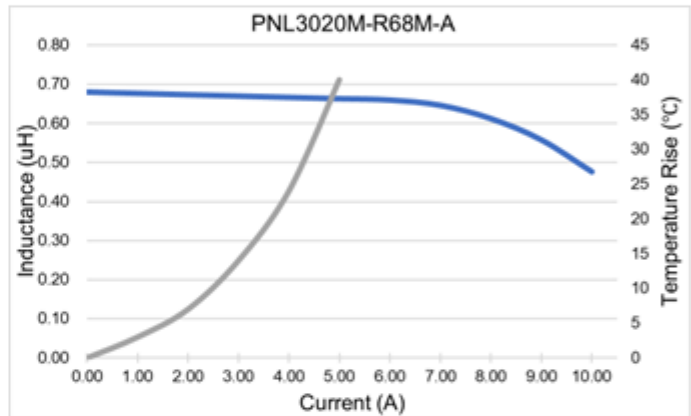
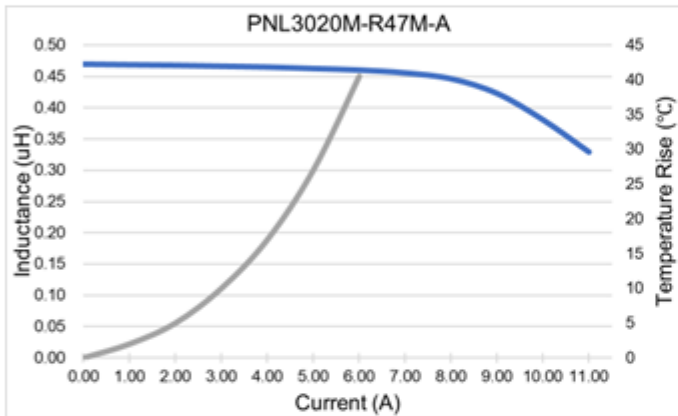
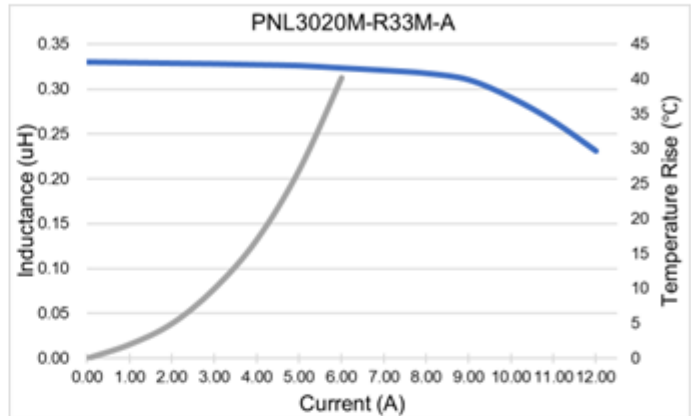
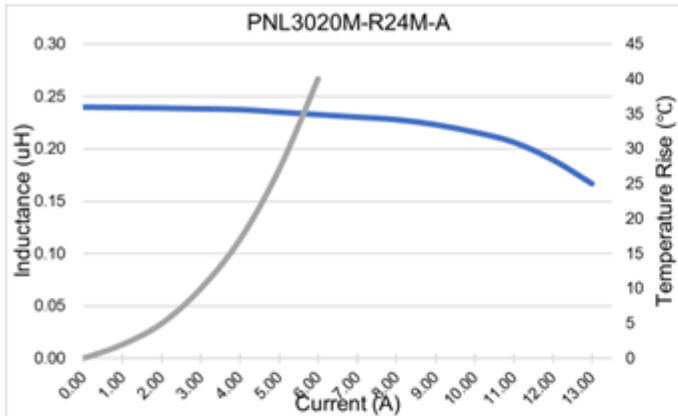
- * Reel : 3,000
- * Box : 18,000



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Performance Graph

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





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