



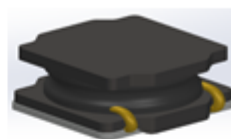
## PNL3010-SERIES-A



### 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

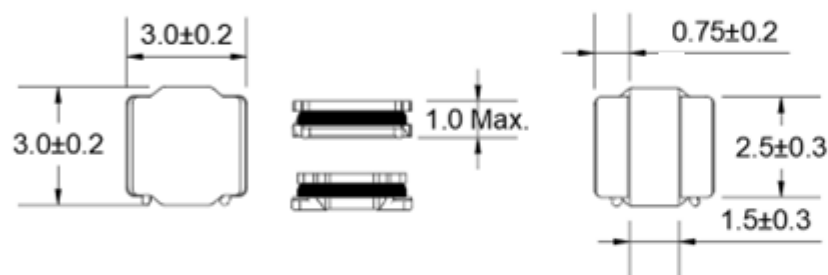
### Picture



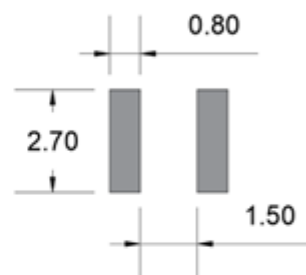
### Environmental data

- 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.
PNL3010-1R0N-A	$1.0 \pm 30\%$	65	85	1.4	1.45
PNL3010-1R5N-A	$1.5 \pm 30\%$	80	104	1.27	1.3
PNL3010-2R2M-A	$2.2 \pm 20\%$	110	143	1.15	1.09
PNL3010-3R3M-A	$3.3 \pm 20\%$	145	189	0.97	0.96
PNL3010-4R7M-A	$4.7 \pm 20\%$	225	293	0.75	0.77
PNL3010-6R8M-A	$6.8 \pm 20\%$	305	397	0.65	0.66
PNL3010-100M-A	$10.0 \pm 20\%$	400	520	0.6	0.58
PNL3010-150M-A	$15.0 \pm 20\%$	610	793	0.42	0.47
PNL3010-220M-A	$22.0 \pm 20\%$	930	1,209	0.35	0.38

### 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  $\Delta T$  of 40 °C

### Packing Q'ty (PCS)

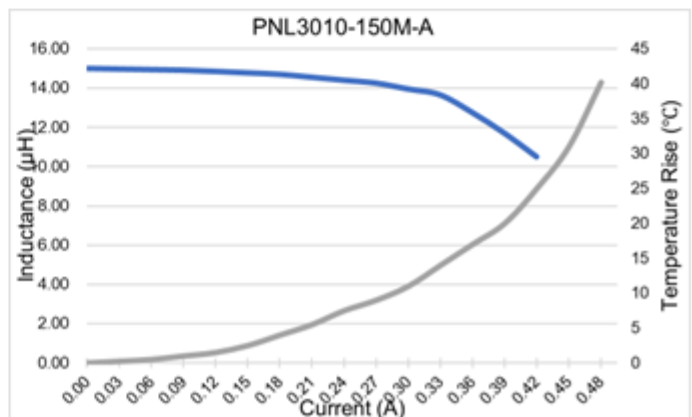
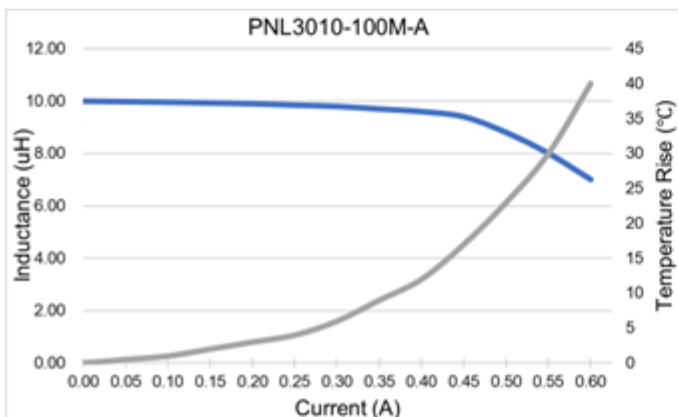
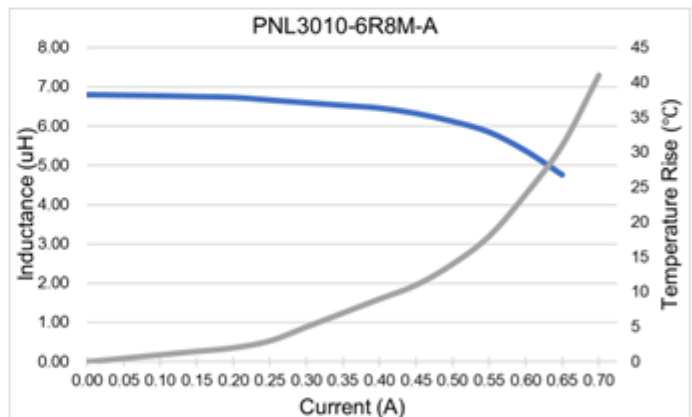
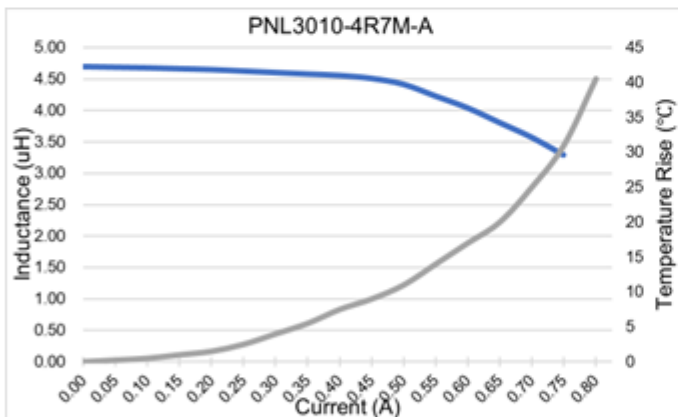
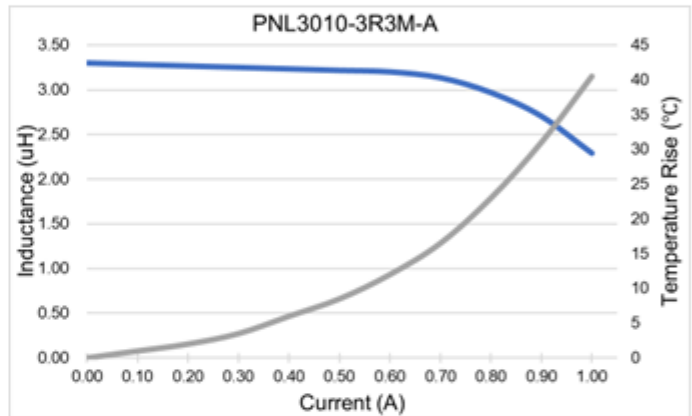
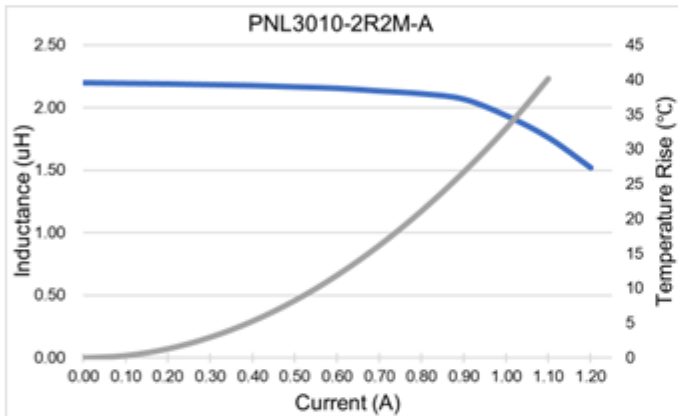
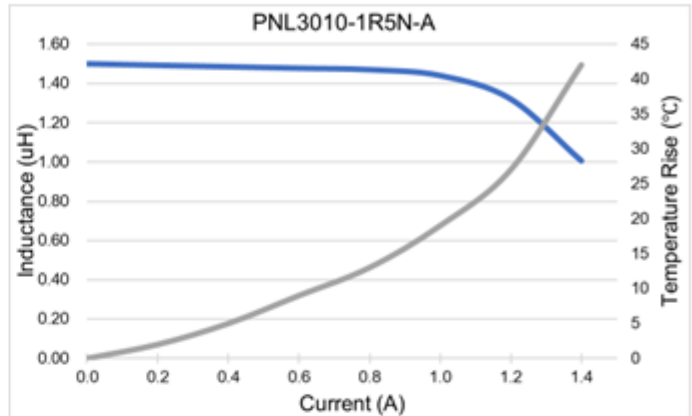
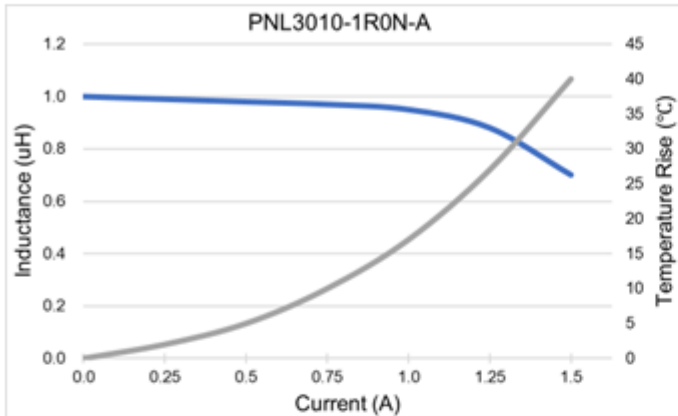
- \* Reel : 2,000
- \* Box : 100,000



## PNL3010-SERIES-A

### Performance Graph

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





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### ■ Performance Graph

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

