

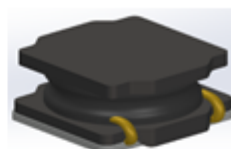


PNL3012M-SERIES-A

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

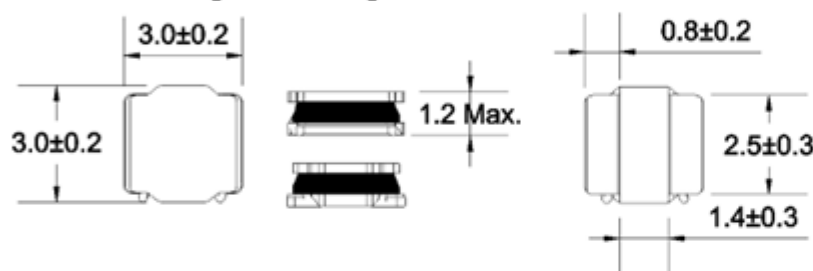
Picture



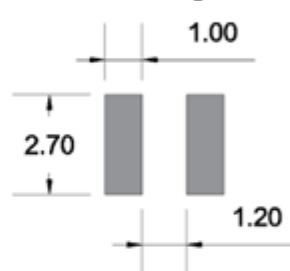
Environmental data

- 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.
PNL3012M-R22M-A	0.22±20%	20	26	9.3	4.2
PNL3012M-R33M-A	0.33±20%	24	32	7.2	4.1
PNL3012M-R47M-A	0.47±20%	31	40	6.8	3.8
PNL3012M-R68M-A	0.68±20%	38	46	5.8	3.1
PNL3012M-1R0M-A	1.0±20%	46	54	4.2	2.7
PNL3012M-1R5M-A	1.5±20%	62	74	3.4	2.5
PNL3012M-2R2M-A	2.2±20%	90	108	2.8	2.05
PNL3012M-3R3M-A	3.3±20%	144	185	2.2	1.5
PNL3012M-4R7M-A	4.7±20%	215	255	2	1.15
PNL3012M-6R8M-A	6.8±20%	290	340	1.6	1.1
PNL3012M-100M-A	10.0±20%	395	474	1.2	1
PNL3012M-150M-A	15.0±20%	610	740	1.1	0.53
PNL3012M-220M-A	22.0±20%	960	1,200	0.96	0.4

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)

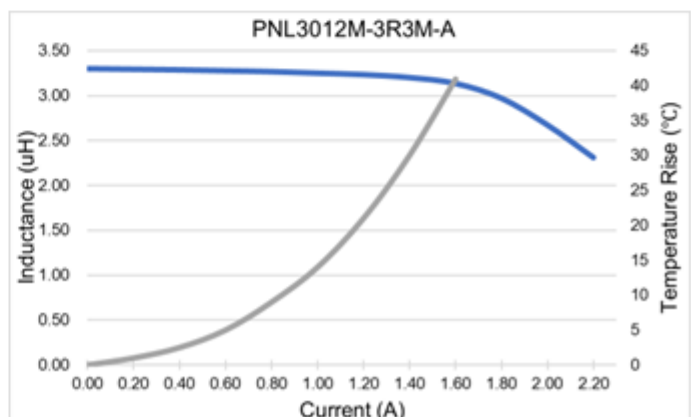
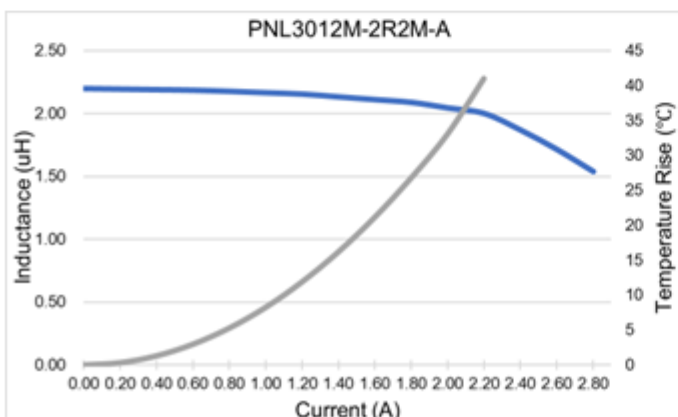
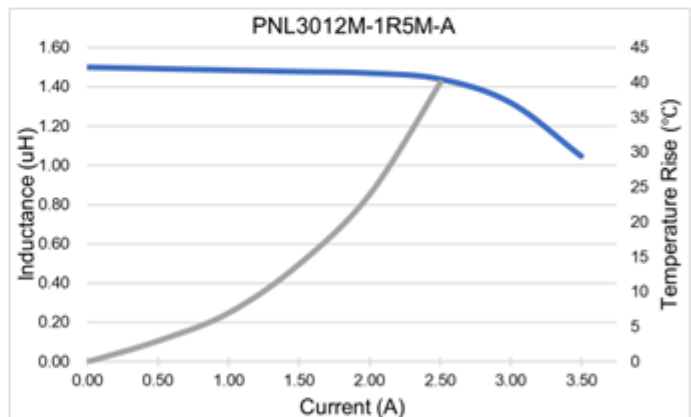
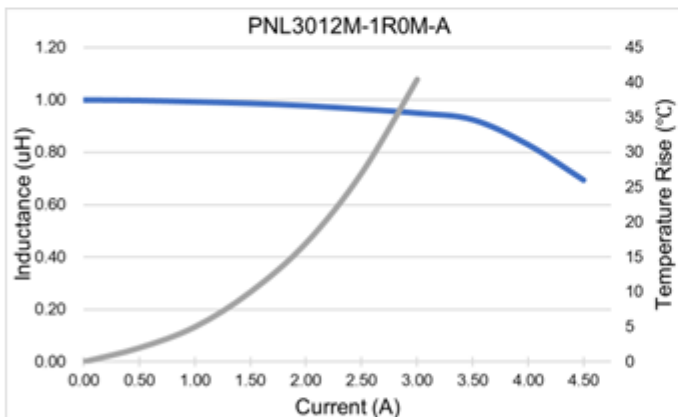
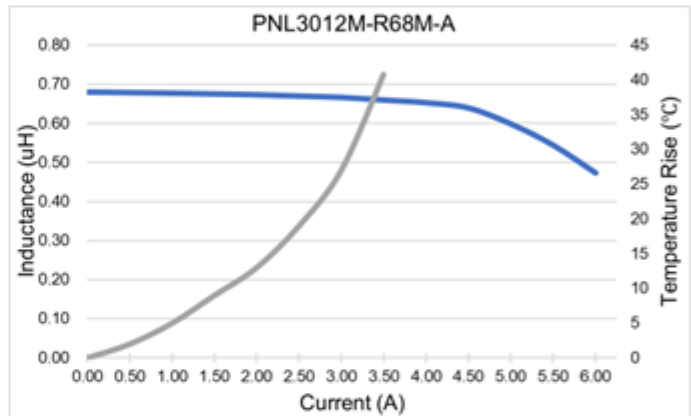
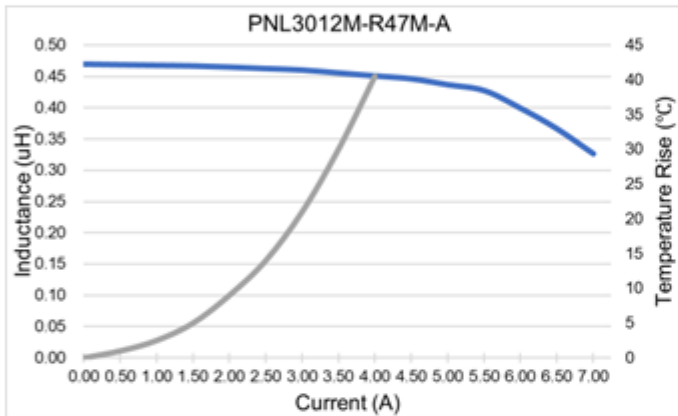
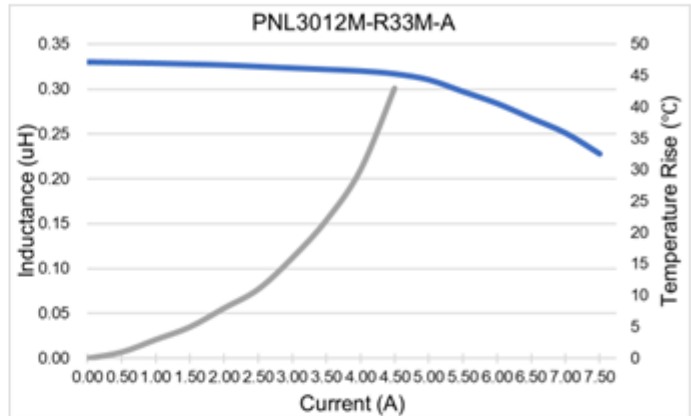
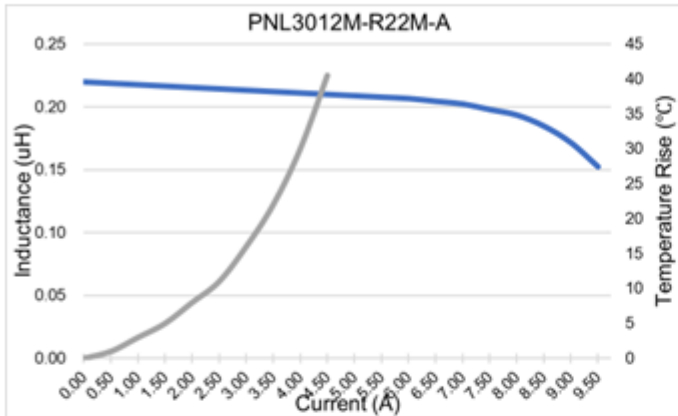
- * Reel : 2,000
- * Box : 100,000



PNL3012M-SERIES-A

Performance Graph

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





PNL3012M-SERIES-A

Performance Graph

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

