

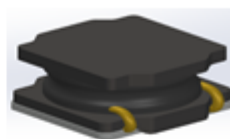


PNL252012M-SERIES-A

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

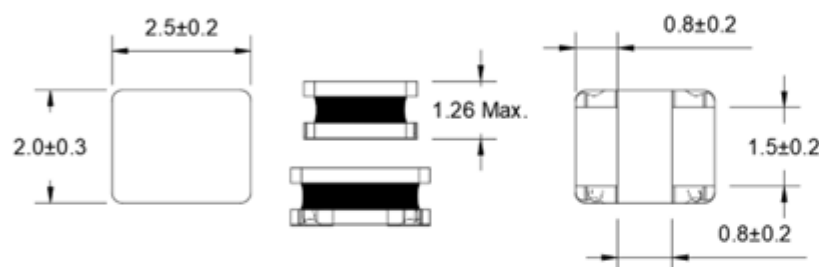
Picture



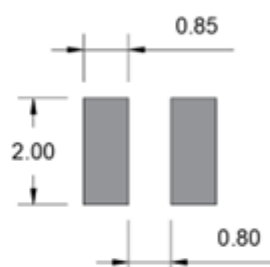
Environmental data

- 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(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL252012M-R24M-A	0.24±20%	19	23	6.5	4.05
PNL252012M-R33M-A	0.33±20%	23	28	5.35	3.7
PNL252012M-R47M-A	0.47±20%	29	35	4.9	3.45
PNL252012M-R68M-A	0.68±20%	39	45	3.8	3.15
PNL252012M-1R0M-A	1.0±20%	48	54	3.6	3
PNL252012M-1R5M-A	1.5±20%	60	78	2.9	2.4
PNL252012M-1R8M-A	1.8±20%	78	96	2.7	2.1
PNL252012M-2R2M-A	2.2±20%	100	120	2.6	1.9
PNL252012M-3R3M-A	3.3±20%	175	215	1.7	1.5
PNL252012M-4R7M-A	4.7±20%	225	260	1.6	1.25
PNL252012M-6R8M-A	6.8±20%	305	366	1.2	0.95
PNL252012M-8R2M-A	8.2±20%	396	460	1.15	0.88
PNL252012M-100M-A	10.0±20%	435	480	1.1	0.85

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)

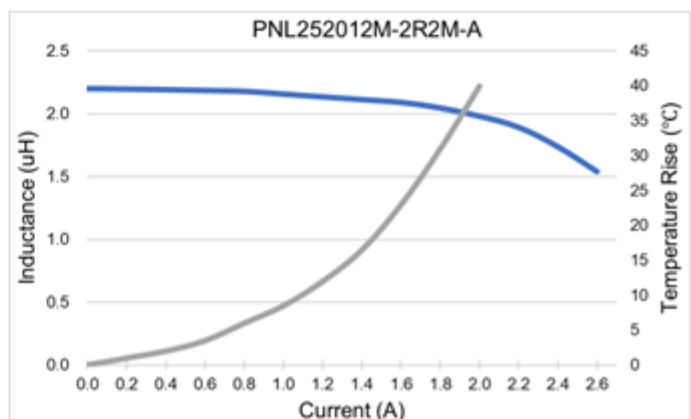
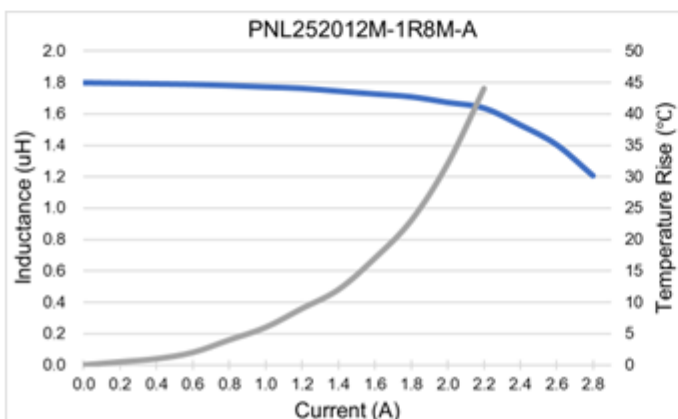
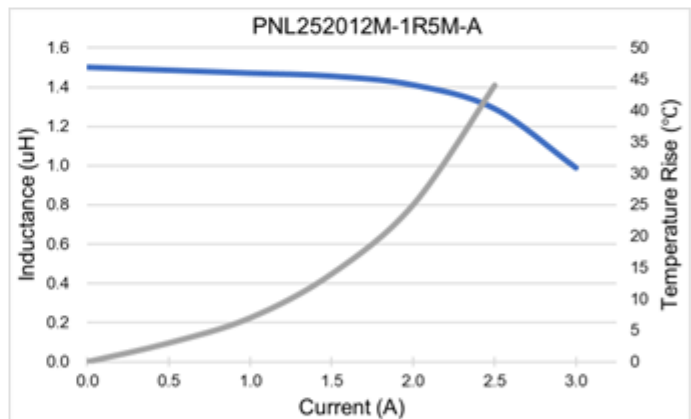
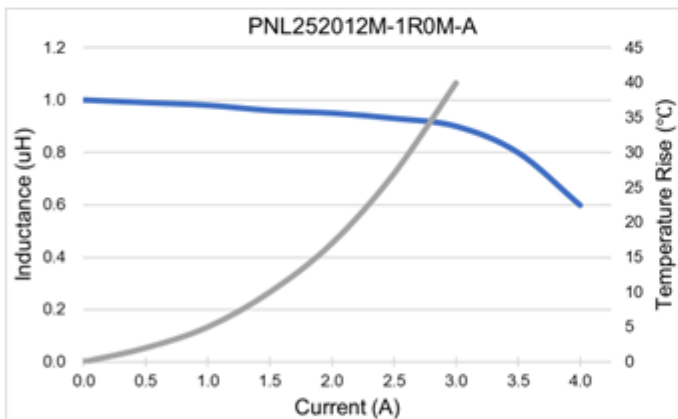
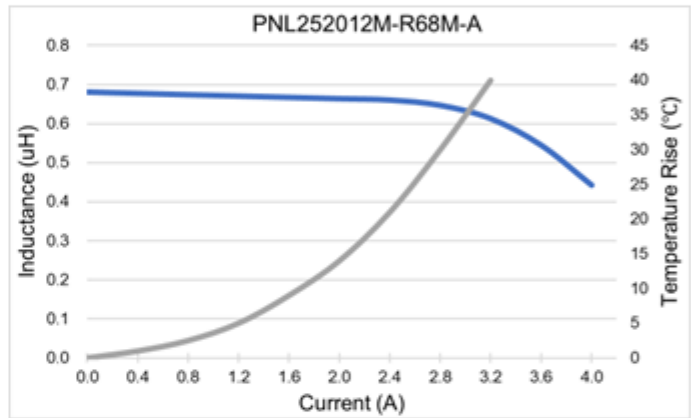
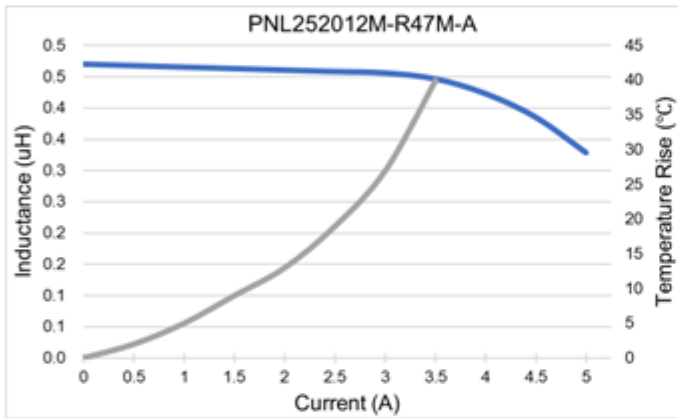
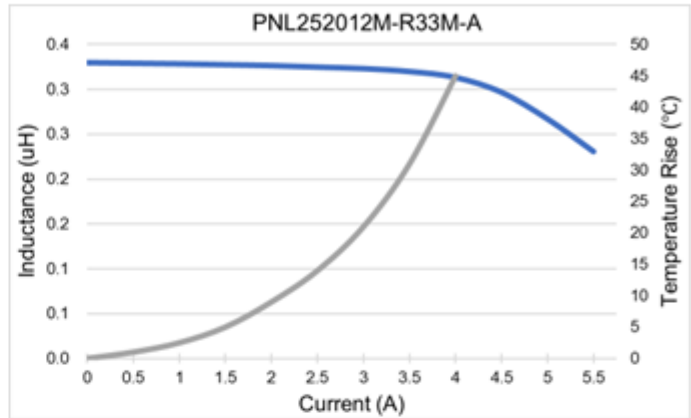
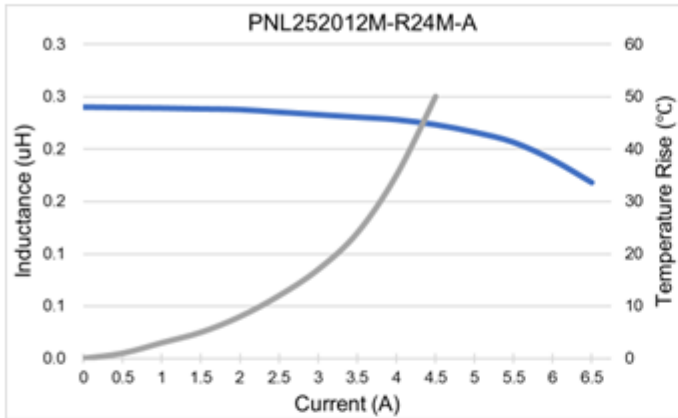
- * Reel : 2,000
- * Box : 100,000



PNL252012M-SERIES-A

Performance Graph

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





PNL252012M-SERIES-A

Performance Graph

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

