



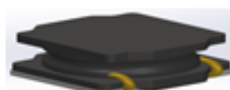
PNL5012-SERIES-A



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

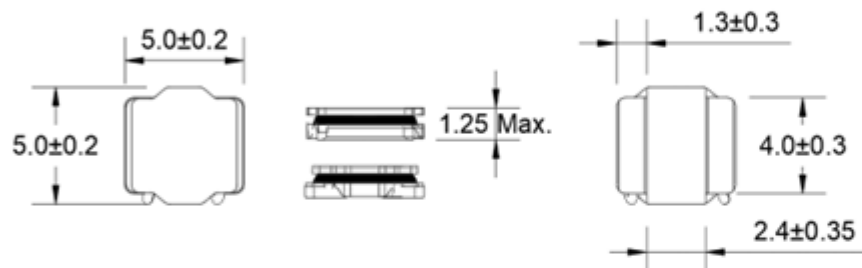
Picture



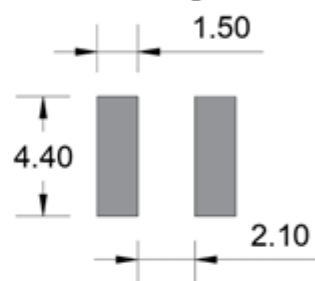
Environmental data

- 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. |
| PNL5012-1R0N-A | 1.0±30% | 57 | 74 | 4.4 | 2.4 |
| PNL5012-1R5N-A | 1.5±30% | 72 | 94 | 3.7 | 2.25 |
| PNL5012-2R2M-A | 2.2±20% | 90 | 117 | 3.1 | 2 |
| PNL5012-3R3M-A | 3.3±20% | 126 | 164 | 2.45 | 1.7 |
| PNL5012-4R7M-A | 4.7±20% | 180 | 234 | 2.2 | 1.3 |
| PNL5012-5R6M-A | 5.6±20% | 230 | 299 | 2 | 1.1 |
| PNL5012-6R8M-A | 6.8±20% | 245 | 319 | 1.75 | 1.1 |
| PNL5012-100M-A | 10.0±20% | 344 | 447 | 1.4 | 1.05 |
| PNL5012-150M-A | 15.0±20% | 480 | 624 | 1.25 | 0.92 |
| PNL5012-220M-A | 22.0±20% | 780 | 1,014 | 0.92 | 0.58 |

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)

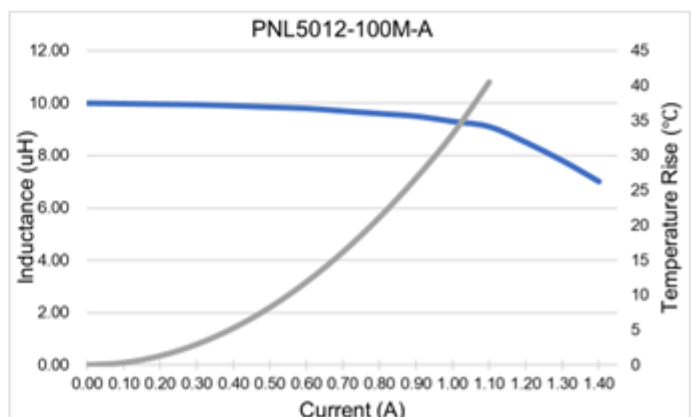
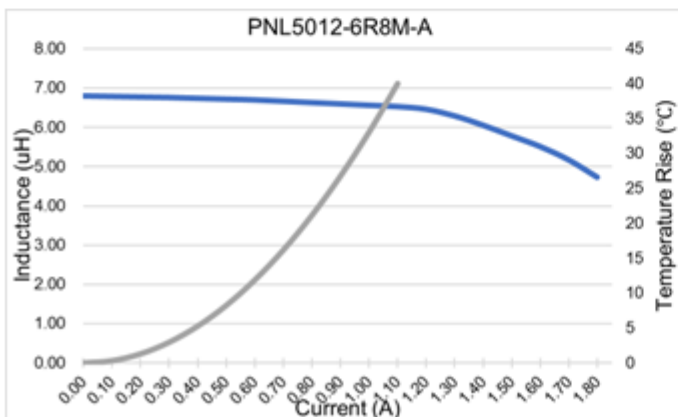
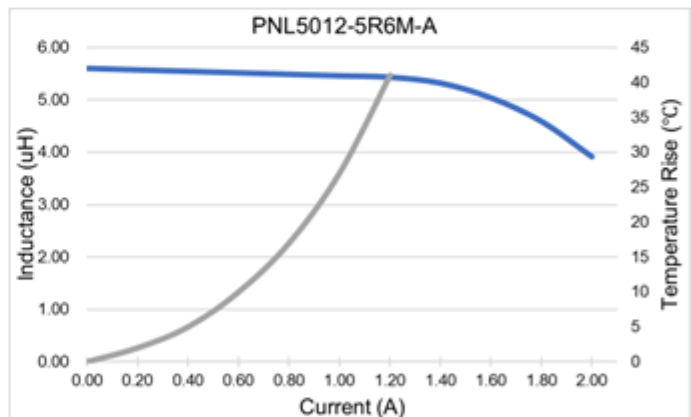
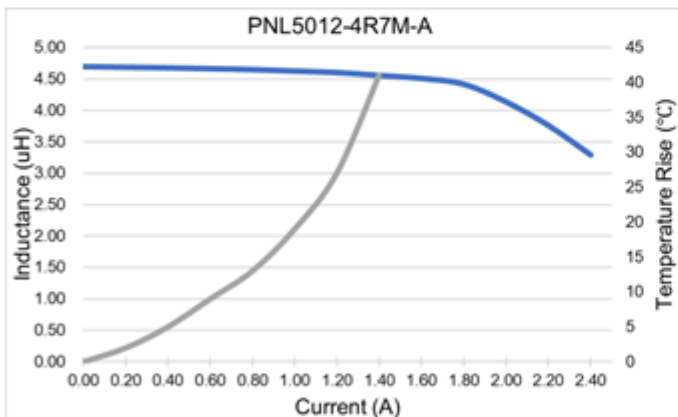
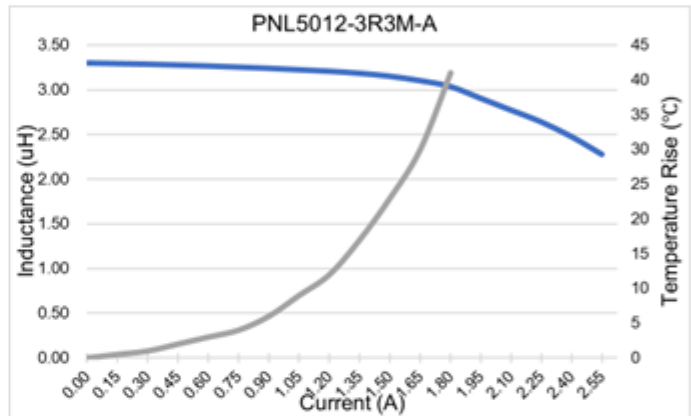
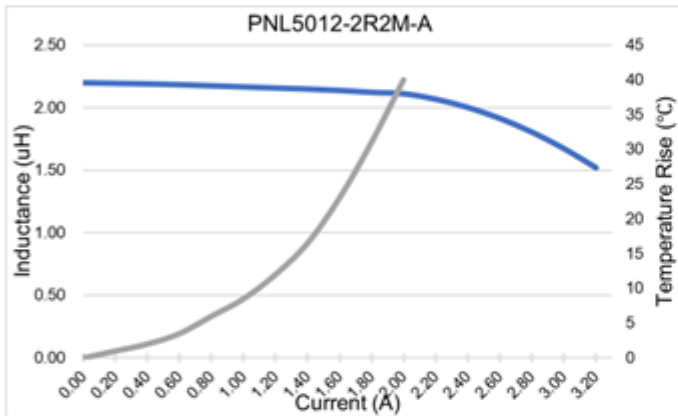
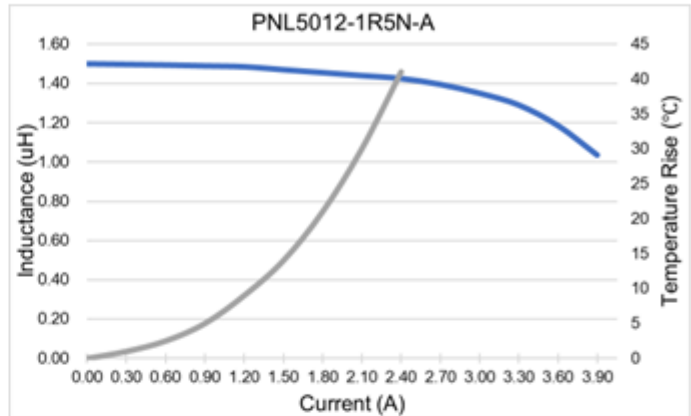
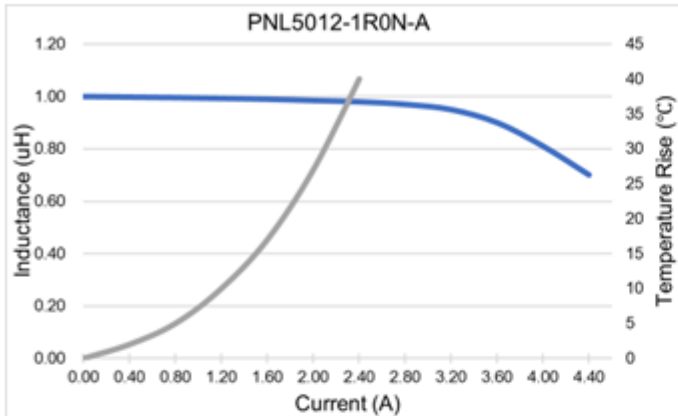
- * Reel : 4,500
- * Box : 27,000



PNL5012-SERIES-A

Performance Graph

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





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■ Performance Graph

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

