

New Product

**SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES LH3212**

FEATURES

- RoHS compliant
- Square footprint
- Low profile
- Well suited for use in mobile devices, LCD panels and MP3 players

ELECTRICAL SPECIFICATIONS

- Inductance range 1.0uH to 22uH
- Test frequency 100kHz @ 0.1Vrms test level
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

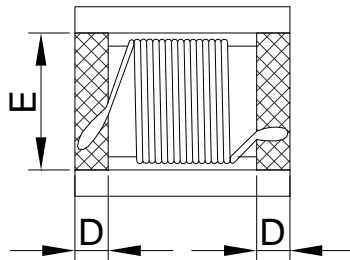
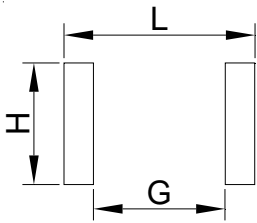
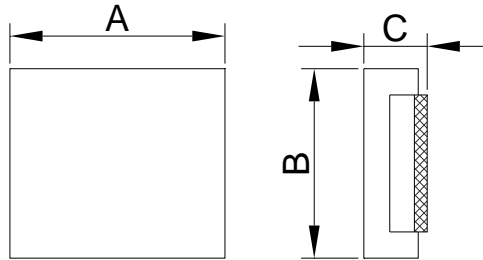
- Operating temp. -40°C to +105°C
- Core Ferrite
- Packaging T & R 2000 pieces per reel
- Tape & reel spec. Tape 8 mm embossed carrier
- Reel 178 mm paper reel

SPECIFICATIONS

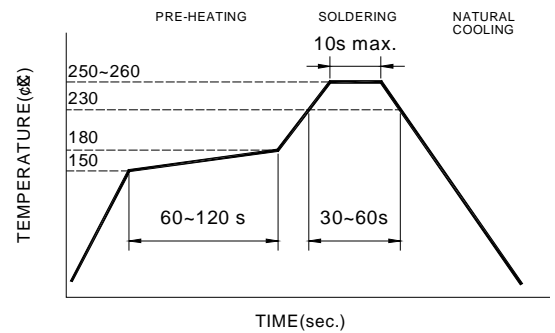
Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)	Saturation Current (A) (Note 2)
LH3212-1R0Y	1.0	30	0.060	2.00	1.70
LH3212-1R5Y	1.5	30	0.066	1.80	1.60
LH3212-2R2M	2.2	20	0.096	1.70	1.10
LH3212-3R3M	3.3	20	0.120	1.30	1.10
LH3212-4R7M	4.7	20	0.156	1.20	0.77
LH3212-6R8M	6.8	20	0.228	0.80	0.70
LH3212-100M	10.0	20	0.348	0.65	0.55
LH3212-150M	15.0	20	0.540	0.60	0.45
LH3212-220M	22.0	20	0.756	0.50	0.38

Dimensions in millimeters

- Length A 3.2 ± 0.2
- Width B 3.0 ± 0.2
- Height C 1.2 max
- Terminal length D 0.4 ± 0.1
- Terminal width E 2.15 ± 0.10



Suggested Reflow Profile



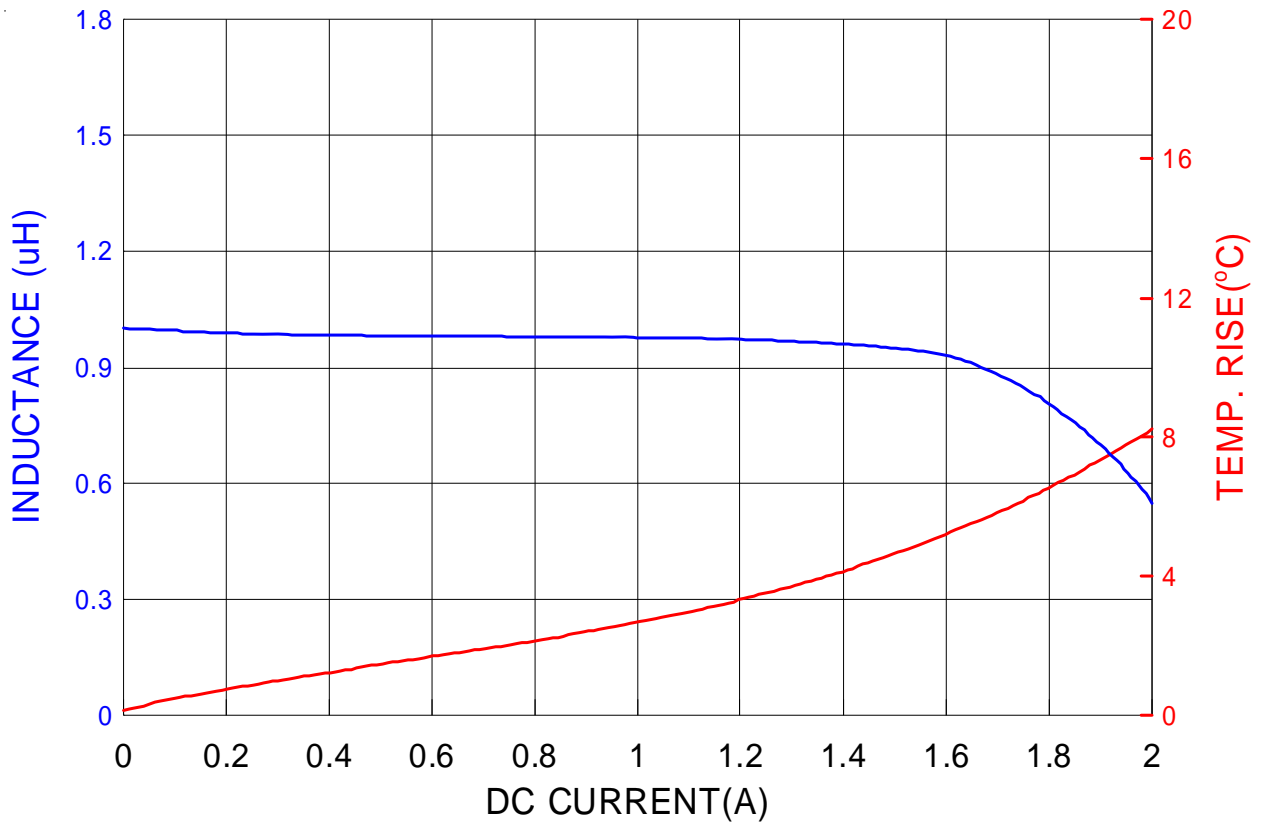
Suggested Land Pattern

- G = 2.0 mm
- H = 3.0 mm
- L = 3.4 mm

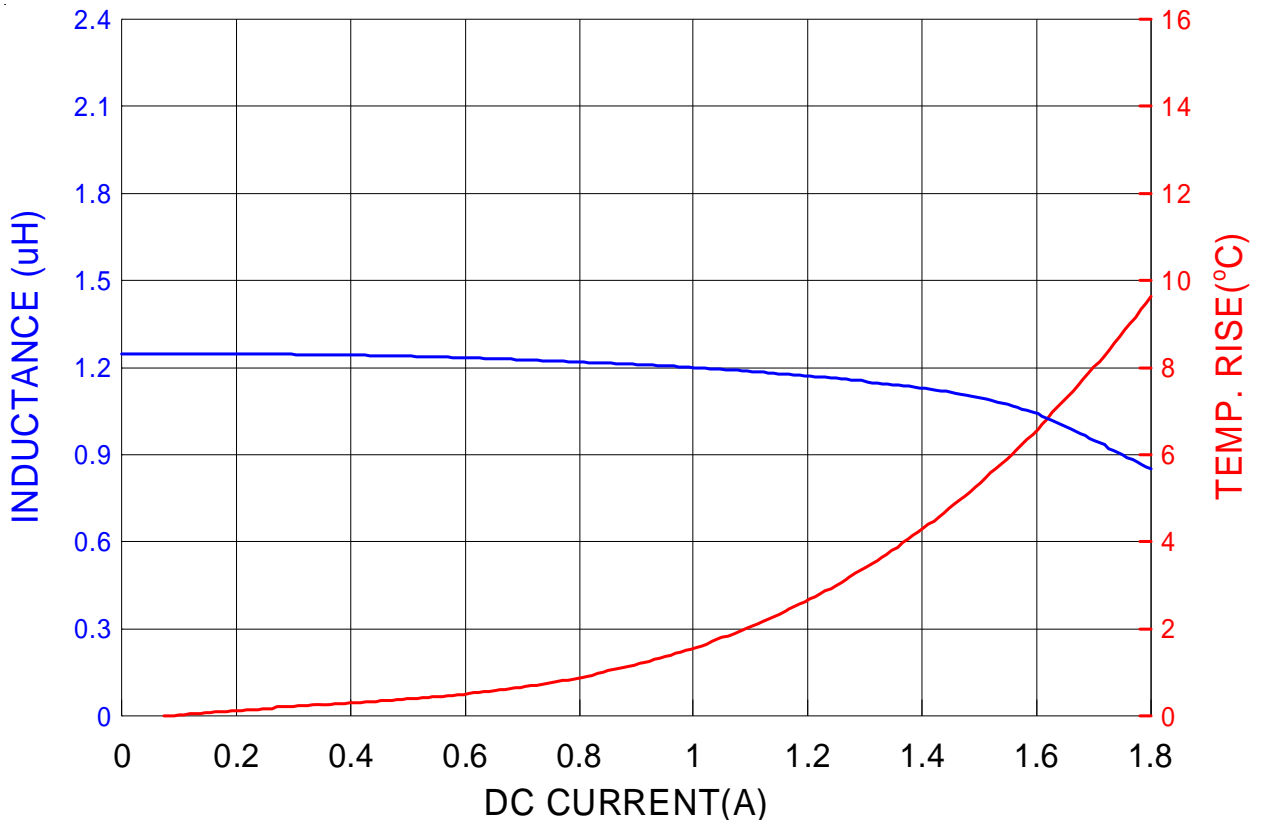
1. Based on ΔT approximately 40°C
2. Based on initial L drops 30% typical.

All test data based on 25°C ambient. Part temperature (ambient+temp rise) not to exceed 105°C under worst case operating conditions. Circuit design, components, PCB trace size and thickness, airflow and other cooling provisions all effect the part temperature. Verify part temperature in end application.

LH3212-1R0Y



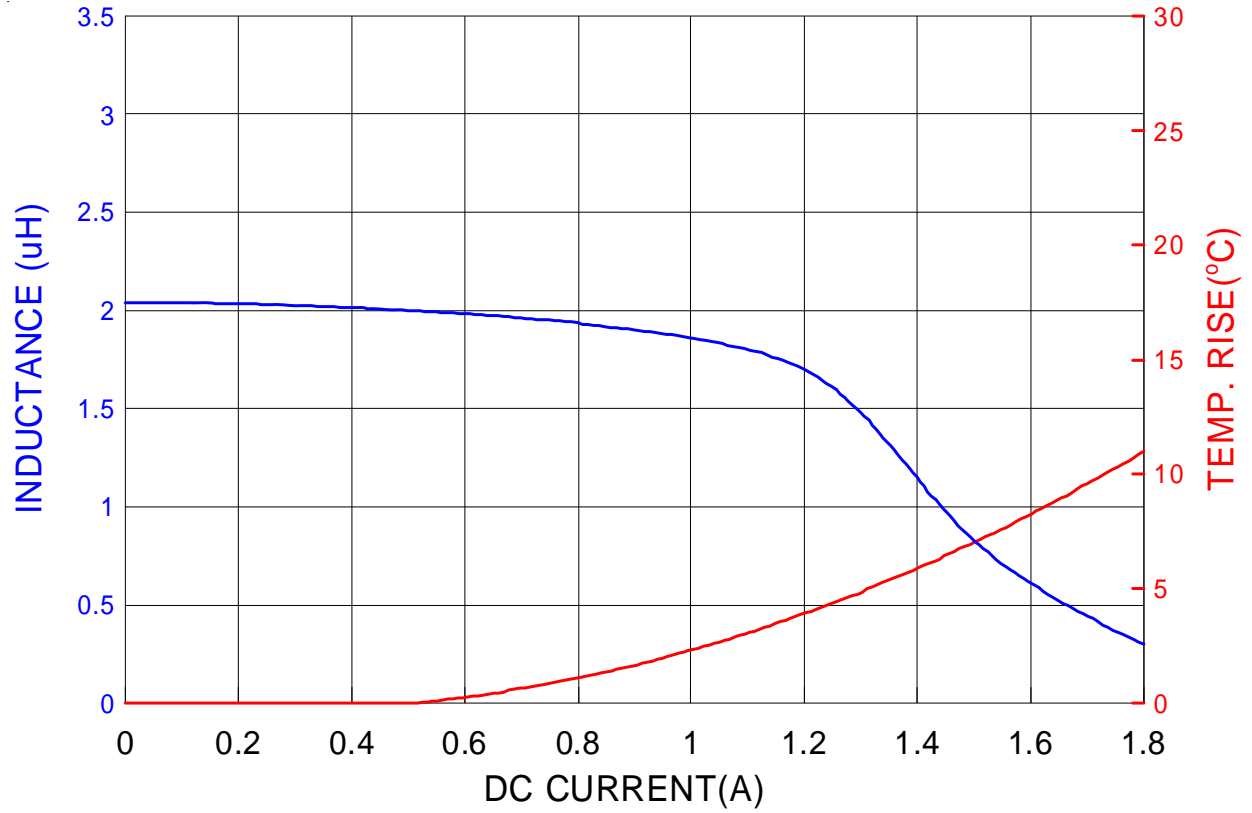
LH3212-1R5Y



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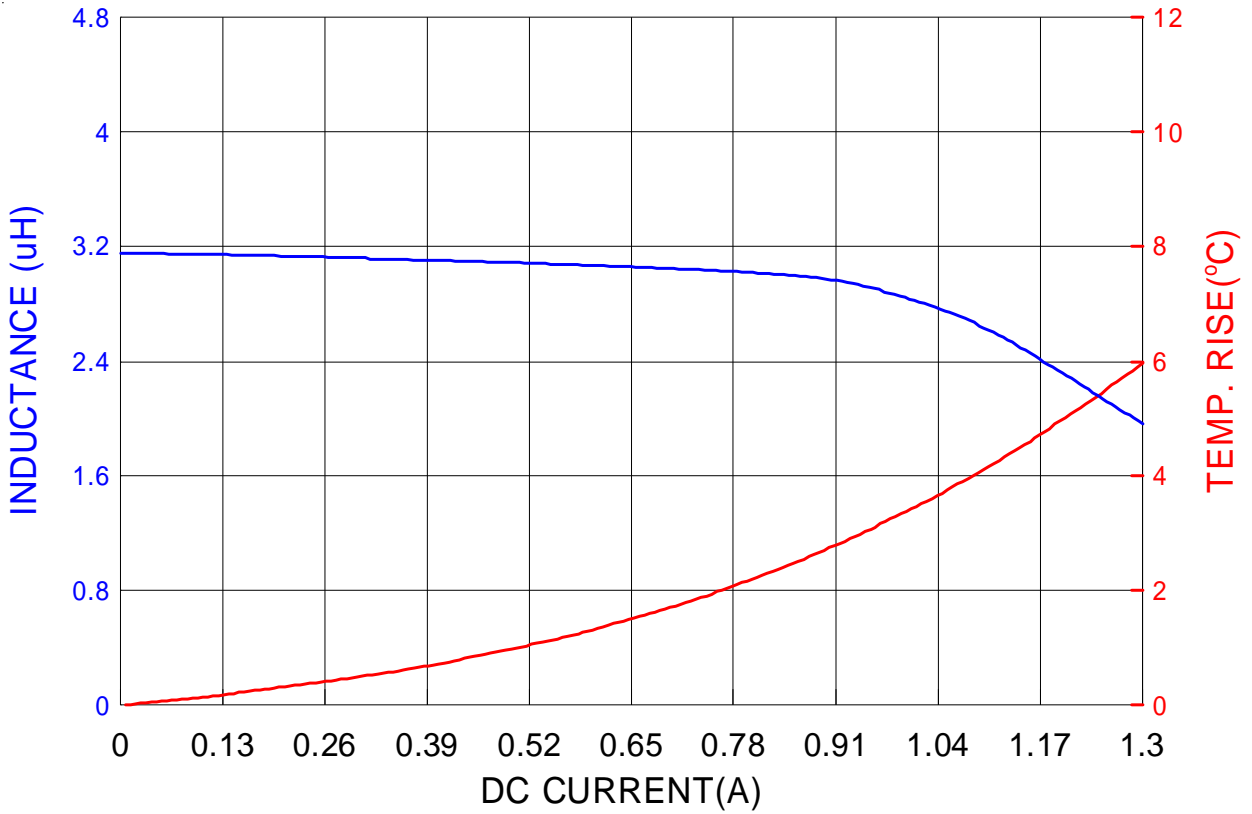
LH3212-2R2M



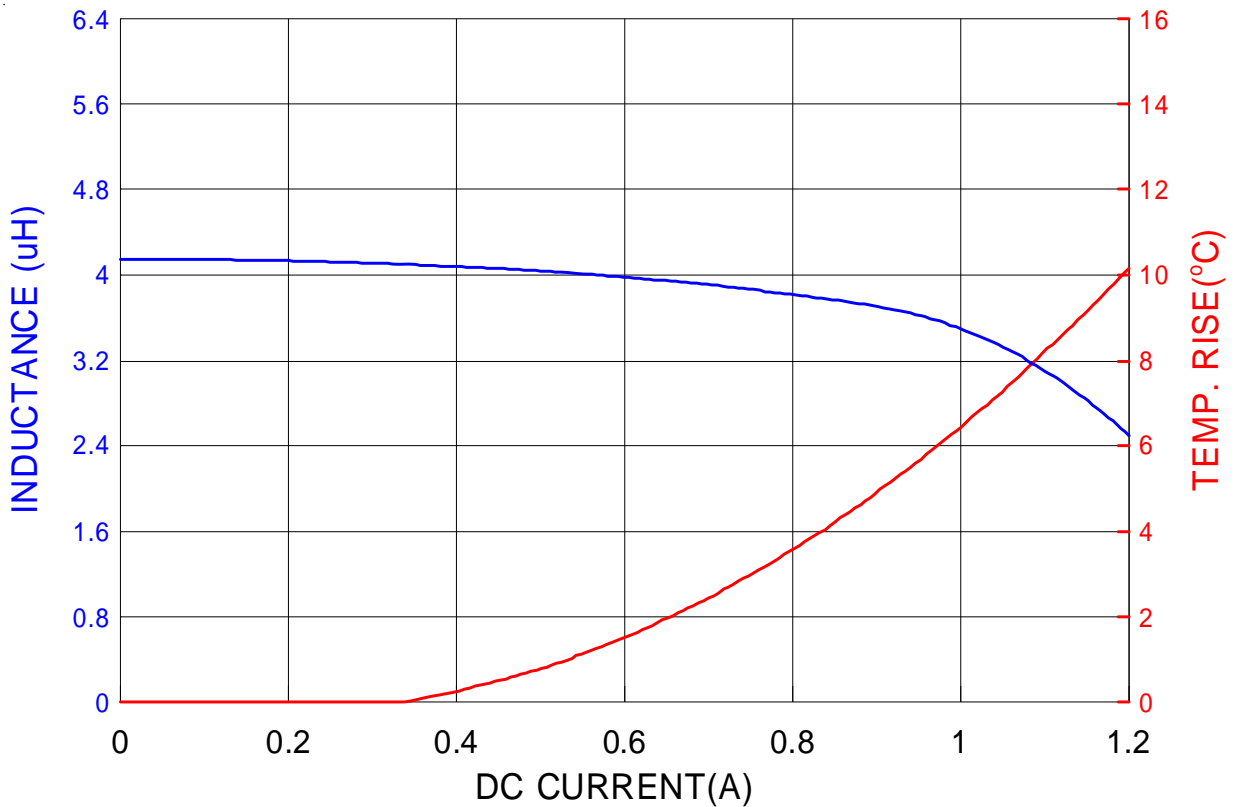
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LH3212-3R3M



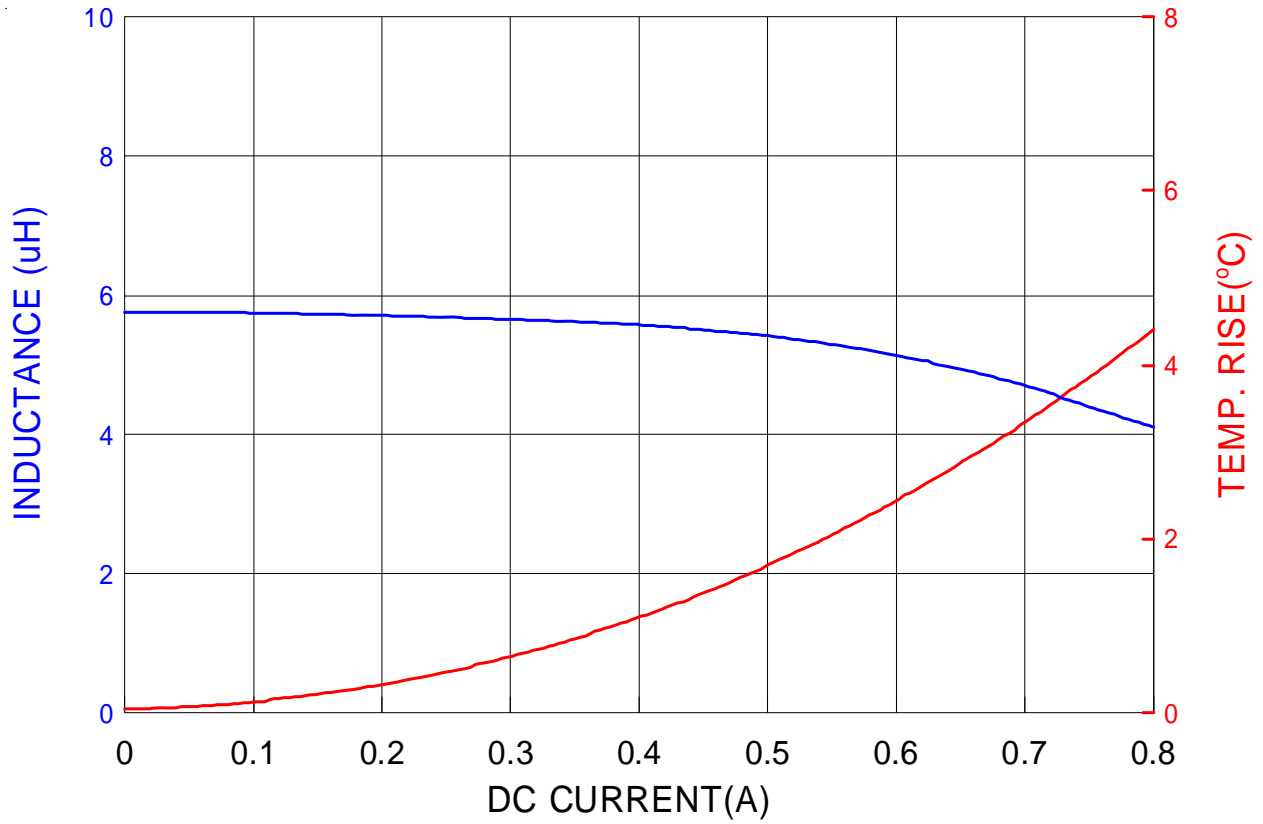
LH3212-4R7M



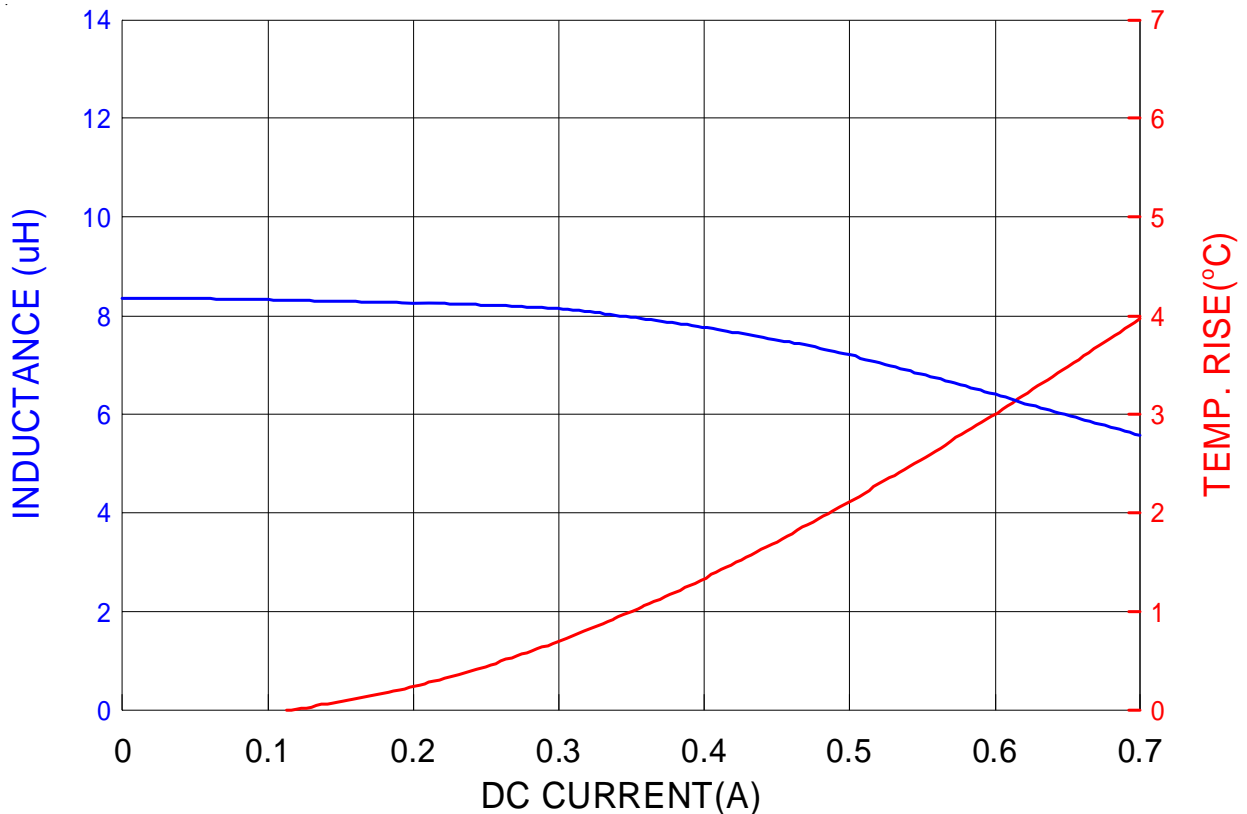
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LH3212-6R8M



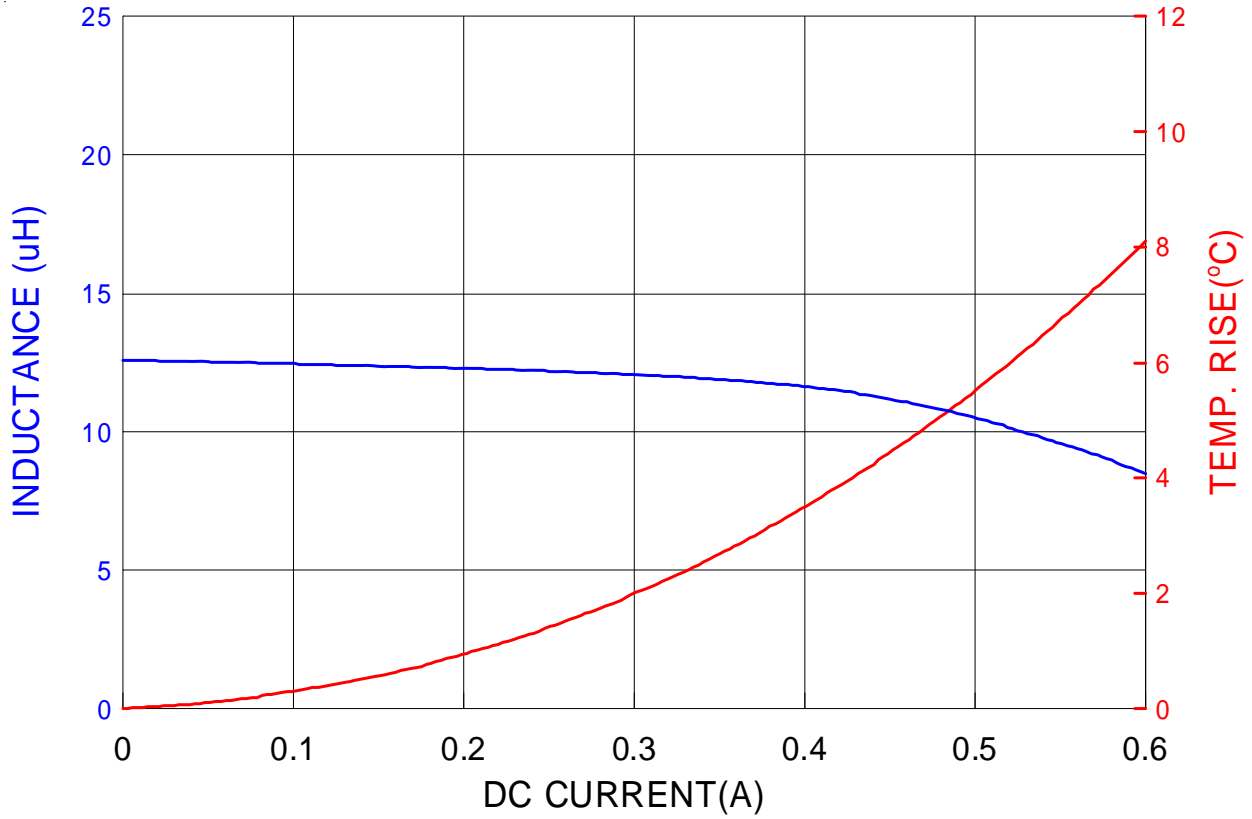
LH3212-100M



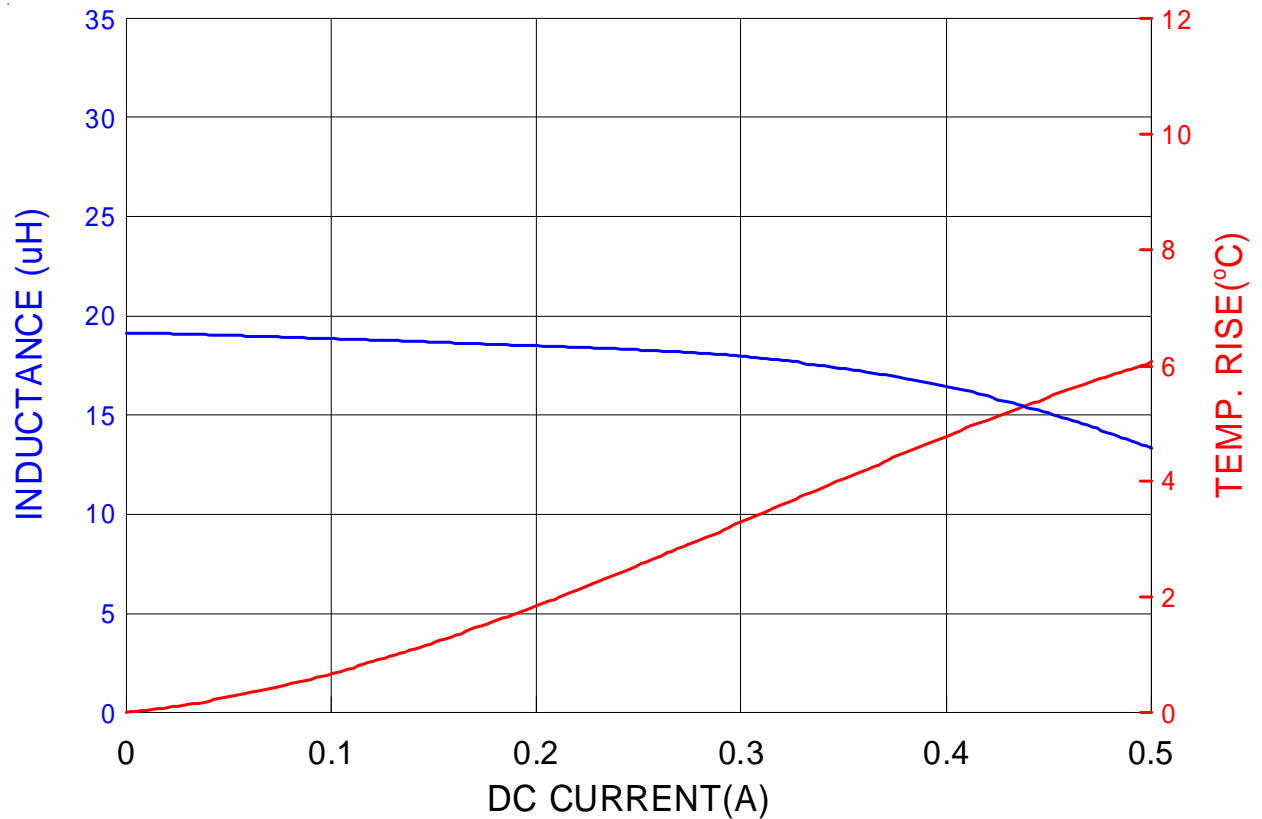
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LH3212-150M



LH3212-220M



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