

New Product

SURFACE MOUNT SHIELDED POWER INDUCTOR SERIES LH4215

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

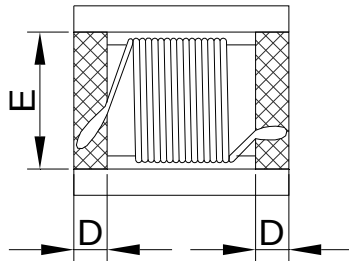
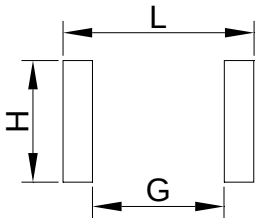
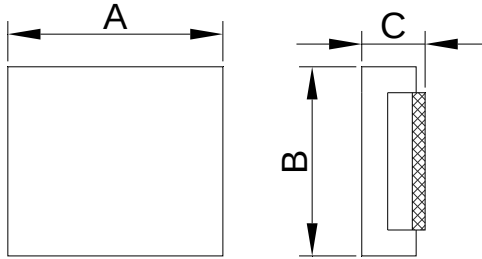
- Operating temp. -40°C to +105°C
- Core Ferrite
- Packaging T & R 800 pieces per reel
- Tape & reel spec. Tape 8 mm embossed carrier
- Reel 178 mm paper reel

SPECIFICATIONS

Part Number	L(uH)	Tol % $\pm$	DCR (ohms) max	Rated Current (A) (Note 1)	Saturation Current (A) (Note 2)
LH4215-1R0Y	1.0	30	0.046	3.5	3.00
LH4215-2R2M	2.2	20	0.078	2.3	2.00
LH4215-3R3M	3.3	20	0.104	2.2	1.65
LH4215-4R7M	4.7	20	0.117	2.0	1.50
LH4215-6R8M	6.8	20	0.143	1.5	1.20
LH4215-100M	10.0	20	0.312	1.2	1.00
LH4215-150M	15.0	20	0.429	1.0	0.90
LH4215-220M	22.0	20	0.520	0.8	0.65

Dimensions in millimeters

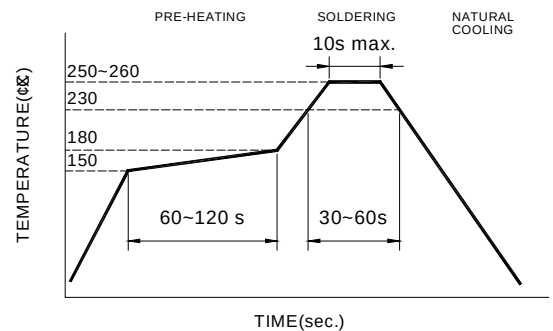
- Length A 4.2 ± 0.2
- Width B 4.0 ± 0.2
- Height C 1.5 max
- Terminal length D 0.6 ± 0.1
- Terminal width E 3.2 ± 0.1



Suggested Land Pattern

- G = 2.8 mm
- H = 4.0 mm
- L = 4.4 mm

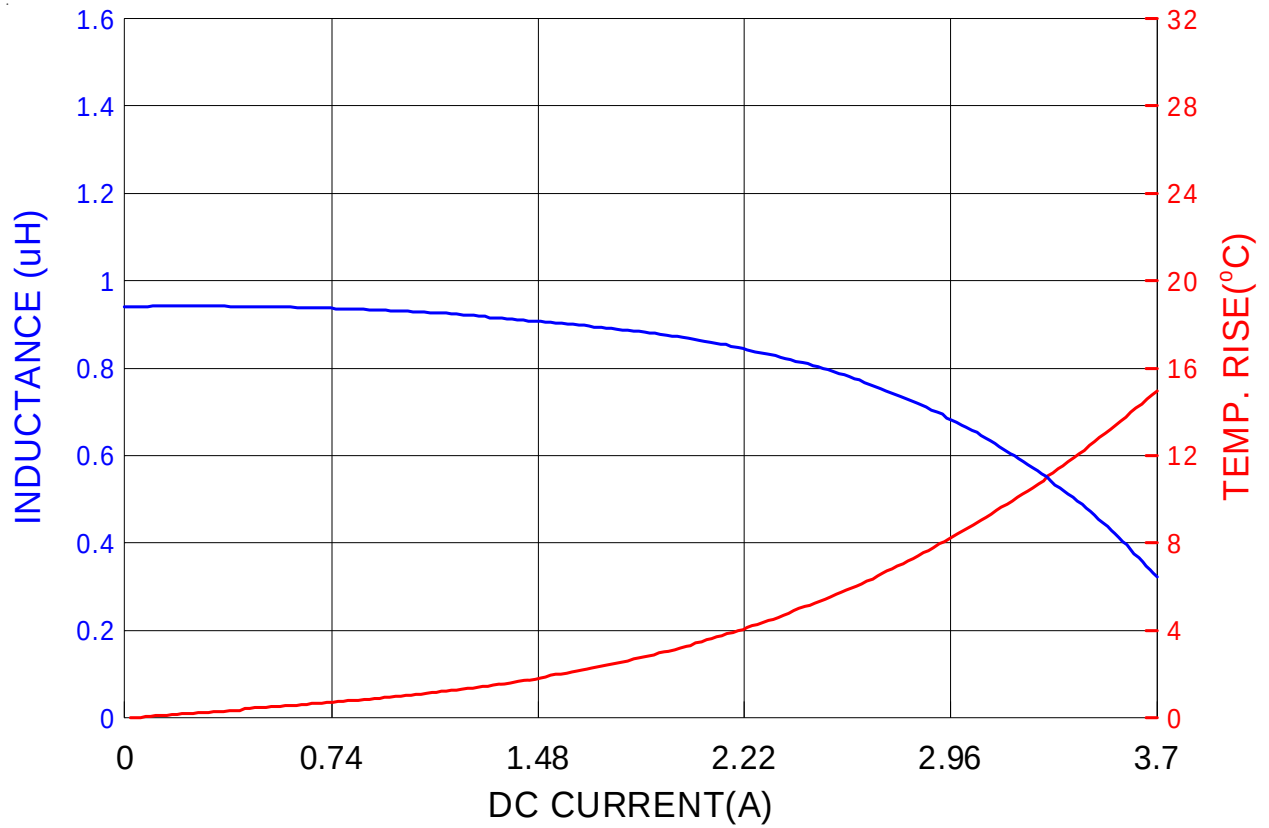
Suggested Reflow Profile



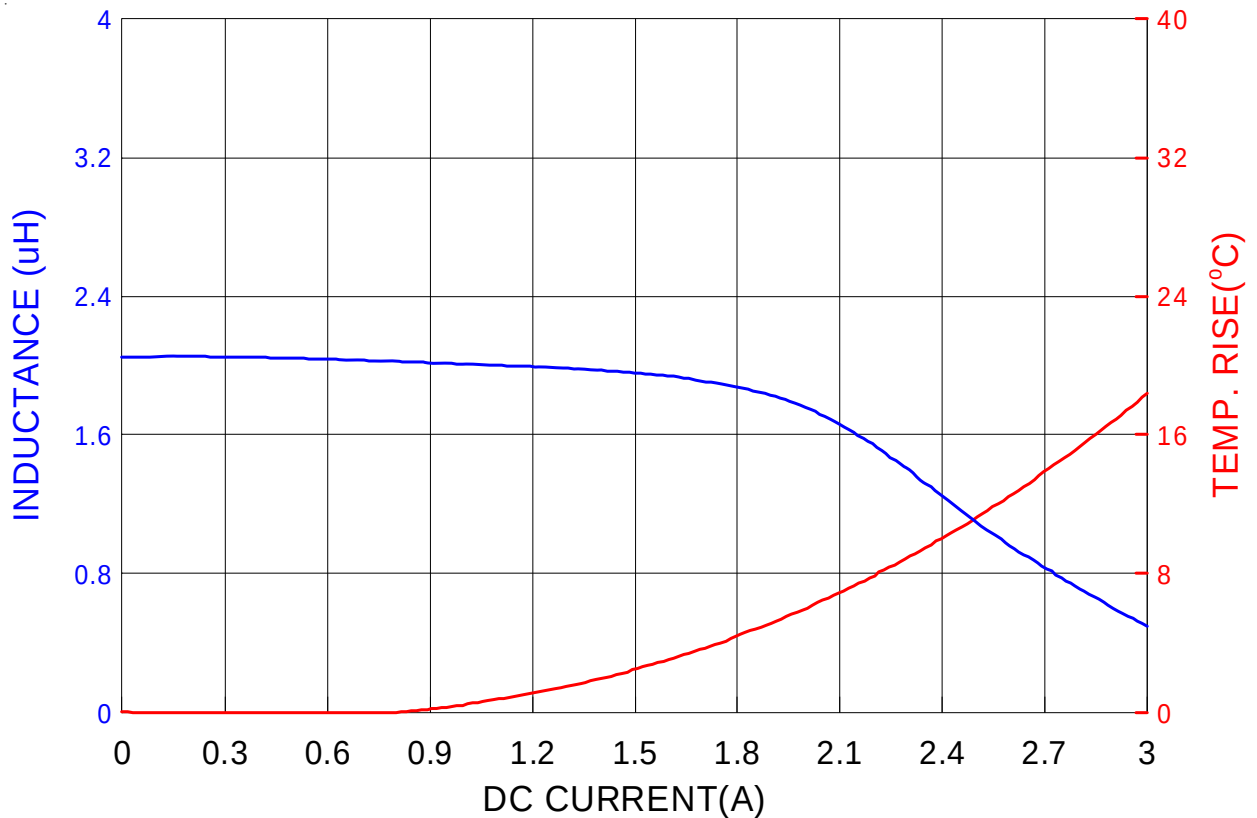
1. Based on ΔT of approximately 40°C
2. Based on initial L drops 30% typical.

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.

LH4215-1R0Y



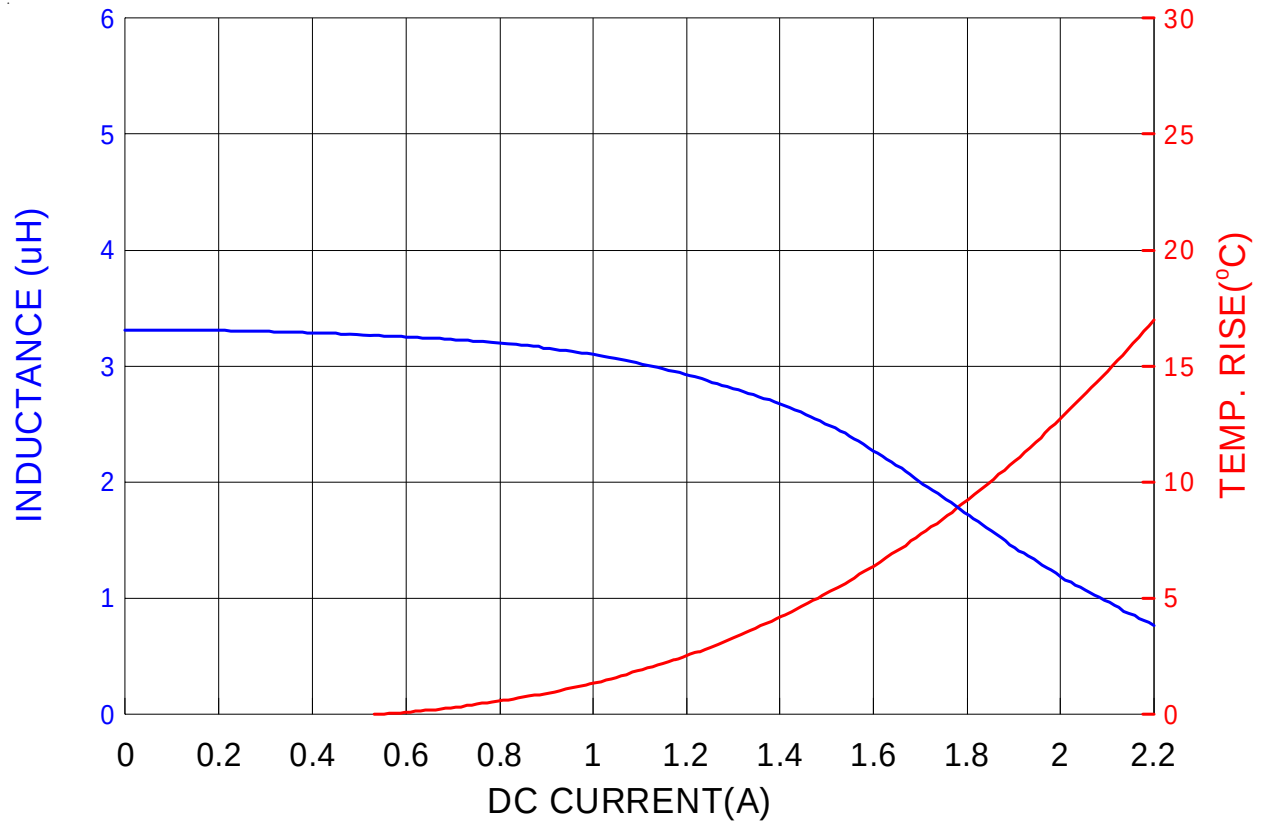
LH4215-2R2M



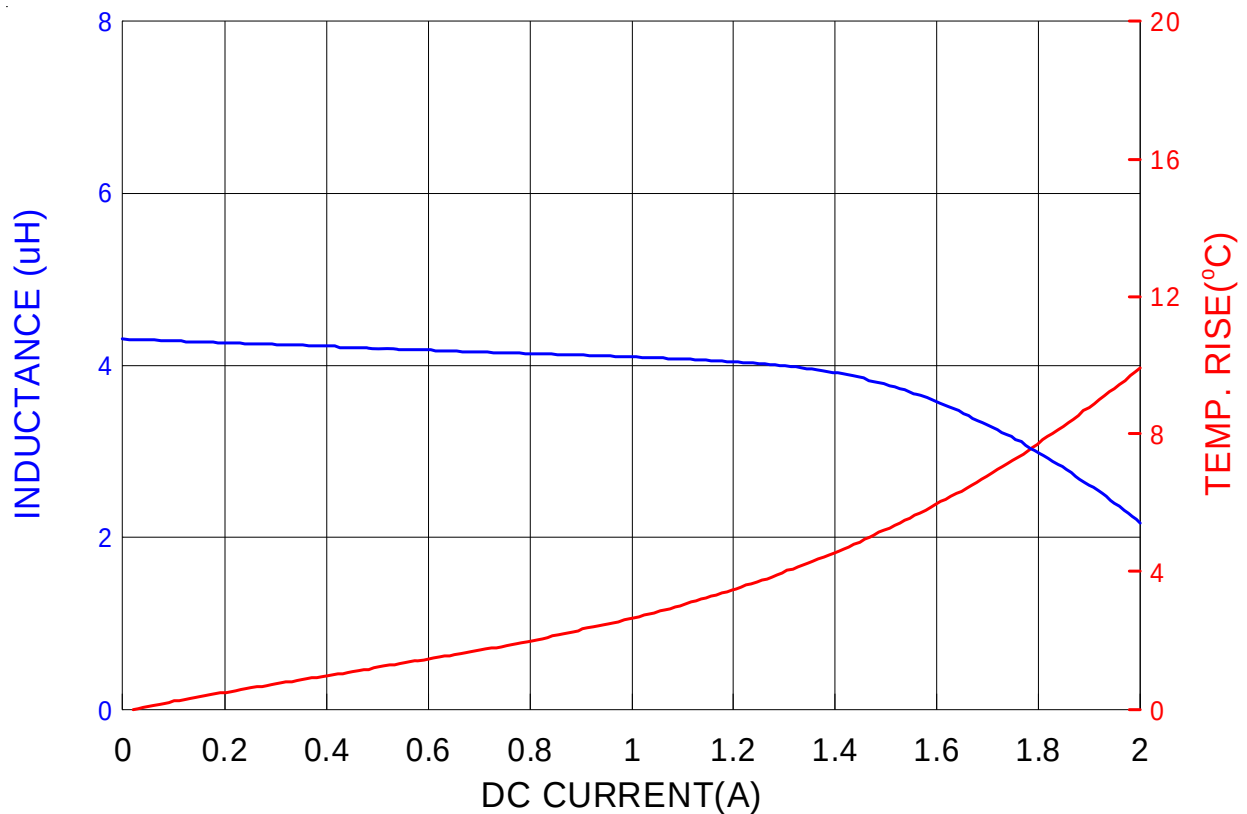
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LH4215-3R3M



LH4215-4R7M



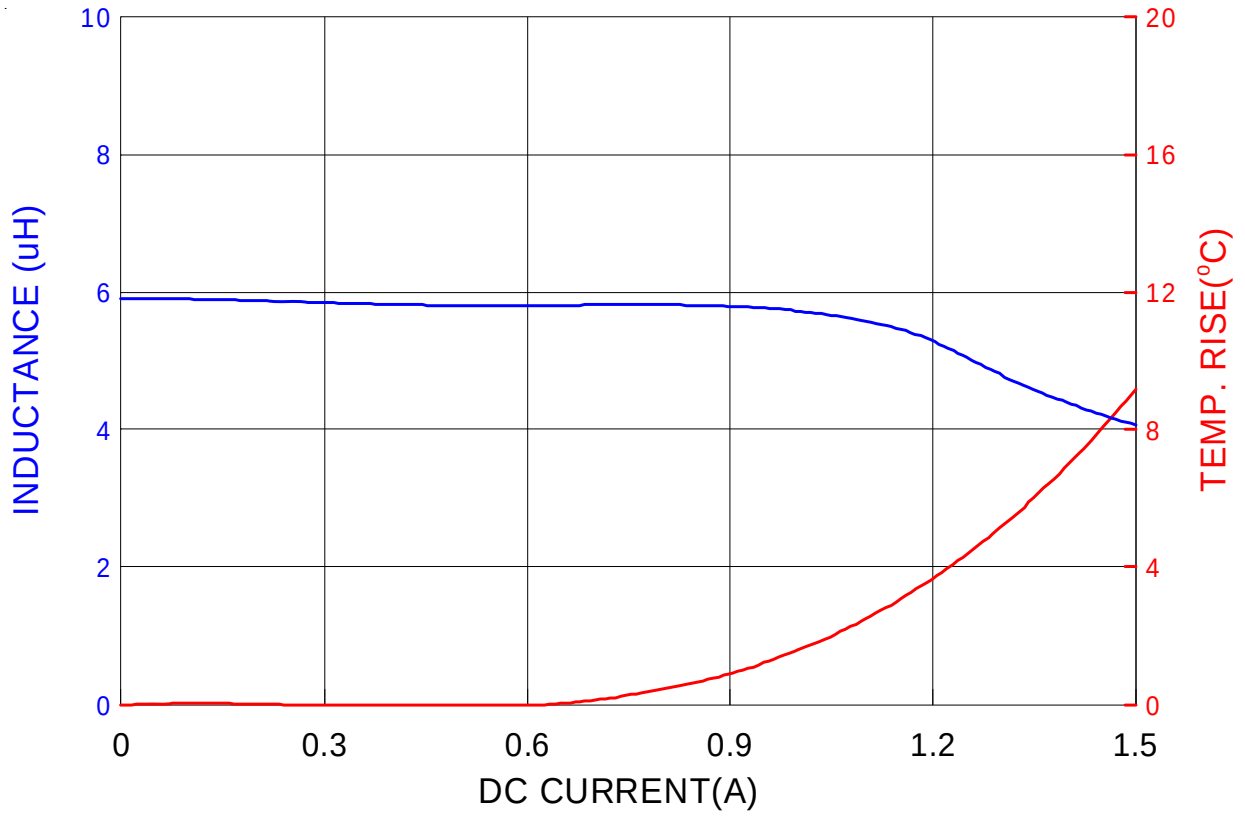
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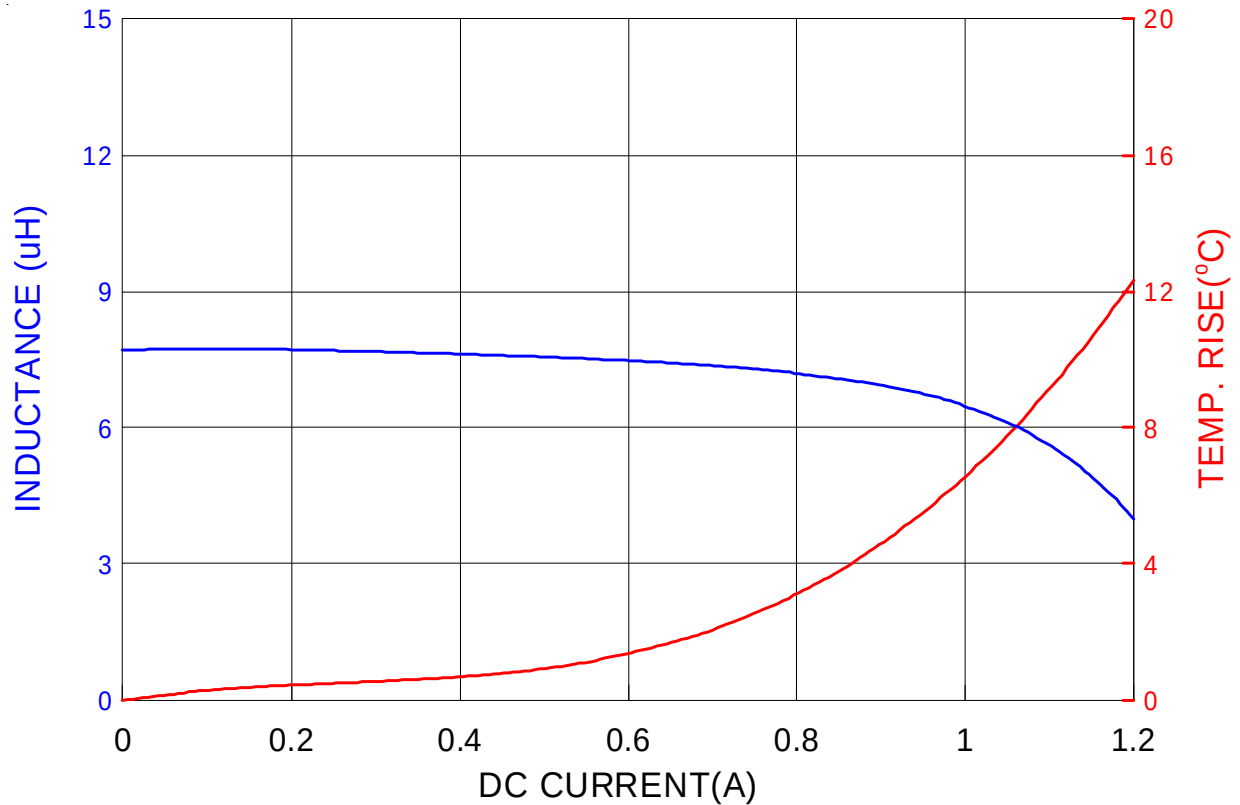
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LH4215-6R8M



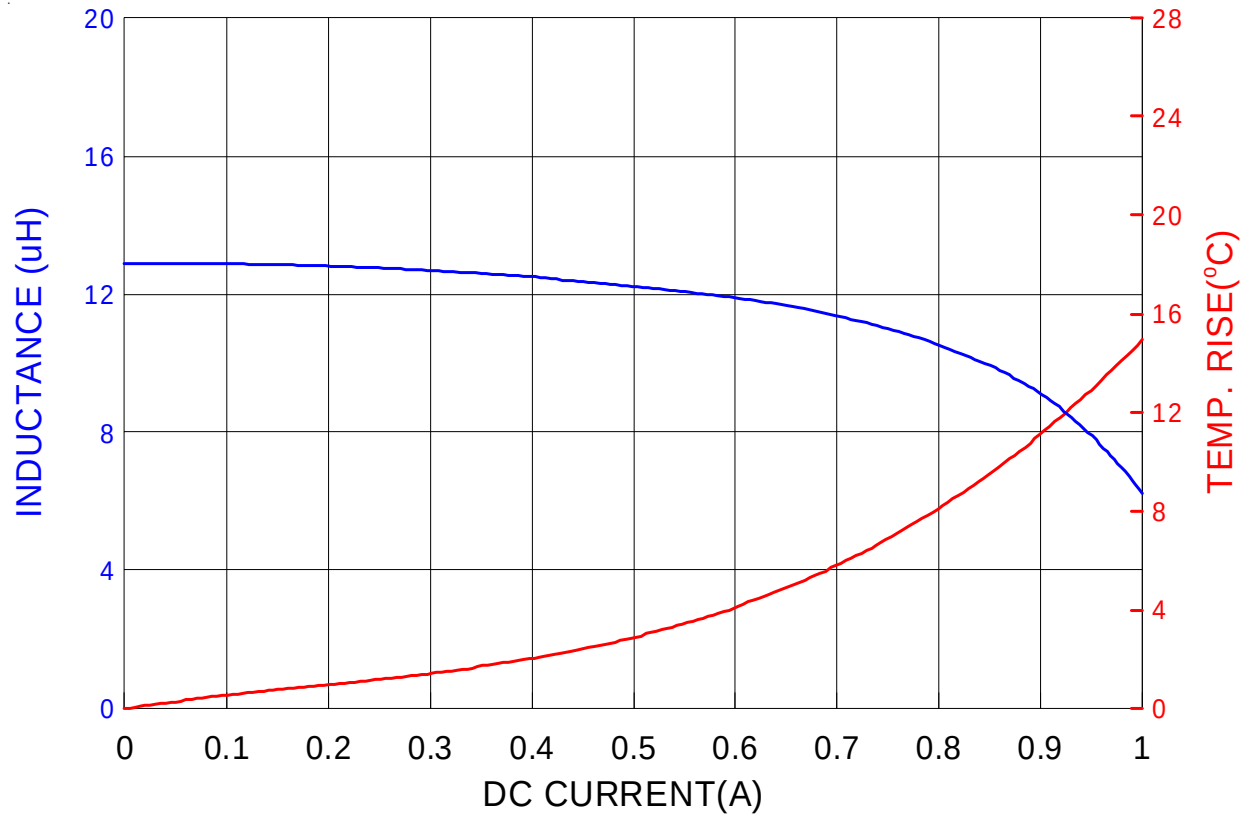
LH4215-100M



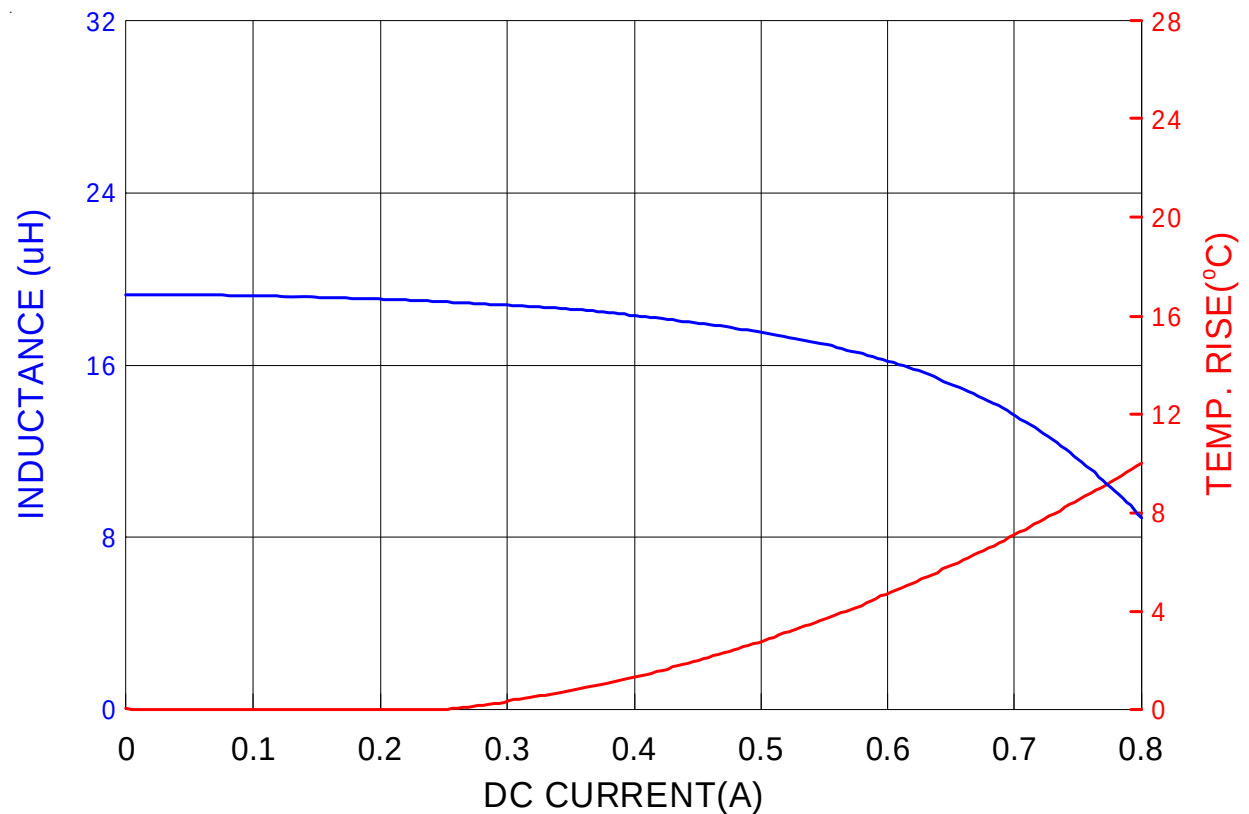
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LH4215-150M



LH4215-220M



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