

New Product

**SURFACEMOUNT
HIGH CURRENT POWER INDUCTOR
SERIES STS1354**

FEATURES

- RoHS Compliant
- High current handling capacity
- Low profile
- Low noise, due to composite construction
- High frequency up to 5MHz

ELECTRICAL SPECIFICATIONS

- Inductance range 0.68uH to 10uH
- Test condition 1Vrms @ 100kHz
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

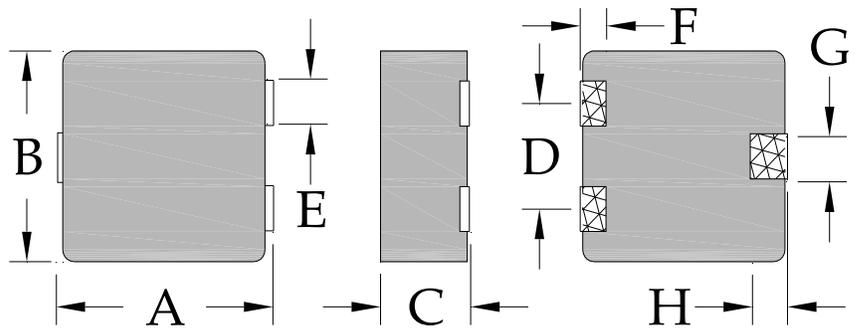
- Operating temp. -55°C to +125°C
- Core Mixed material
- Packaging T & R 500 pieces per reel
- Tape & reel spec. Tape 24 mm embossed carrier
- Reel 330 mm reel

SPECIFICATIONS

Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)	Saturation Current (A) (Note 2)
STS1354-R68M	0.68	20	0.0015	29.7	38.8
STS1354-1R0M	1.0	20	0.002	26	34
STS1354-1R2M	1.2	20	0.0026	24	27
STS1354-1R4M	1.4	20	0.003	22	26
STS1354-2R2M	2.2	20	0.0045	18	20
STS1354-2R7M	2.7	20	0.006	16	19
STS1354-3R3M	3.3	20	0.007	15	18
STS1354-4R7M	4.7	20	0.0088	13	15
STS1354-5R6M	5.6	20	0.011	10	14
STS1354-6R8M	6.8	20	0.012	9	12
STS1354-8R2M	8.2	20	0.015	9	13
STS1354-100M	10.0	20	0.015	7	10

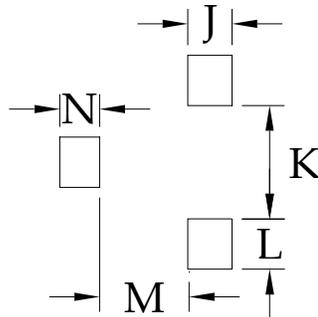
Dimensions in millimeters

- Length A 13.5 max
- Width B 13.0 max
- Height C 5.4 max
- Terminal pitch D 7.0 ± 0.5
- Terminal width E 2.0 ± 0.5
- Terminal length F 2.2 ± 0.5
- Terminal width G 2.5 ± 0.5
- Terminal length H 1.7 ± 0.5

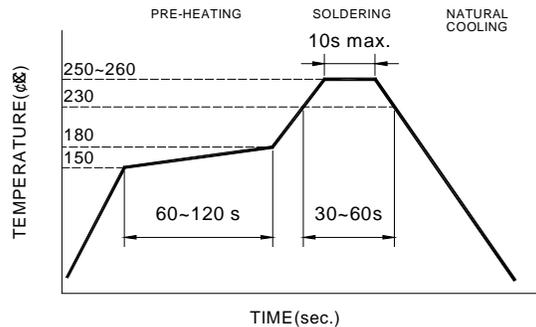


Suggested PCB layout

- J = 3.0 mm
- K = 4.0 mm
- L = 3.0 mm
- M = 9.6 mm
- N = 2.4 mm



Suggested Reflow Profile

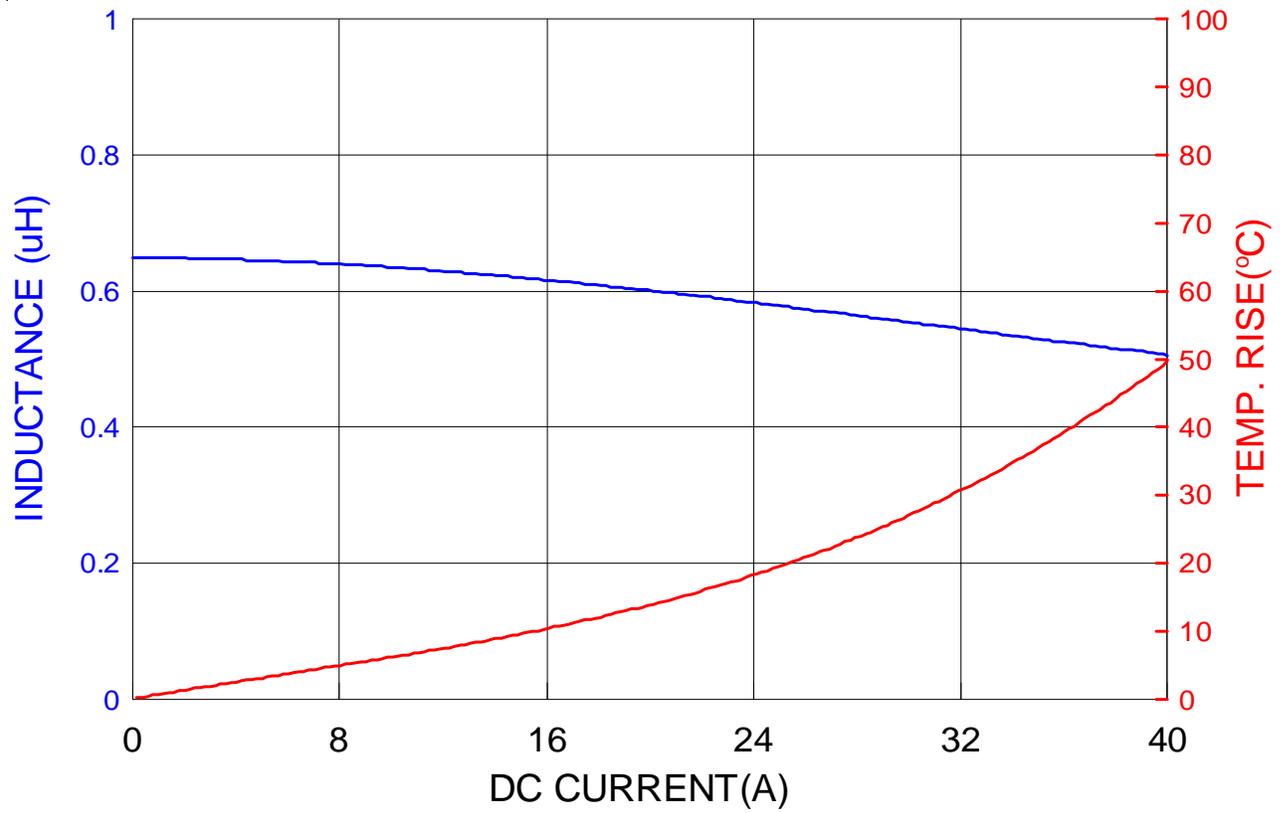


Notes:

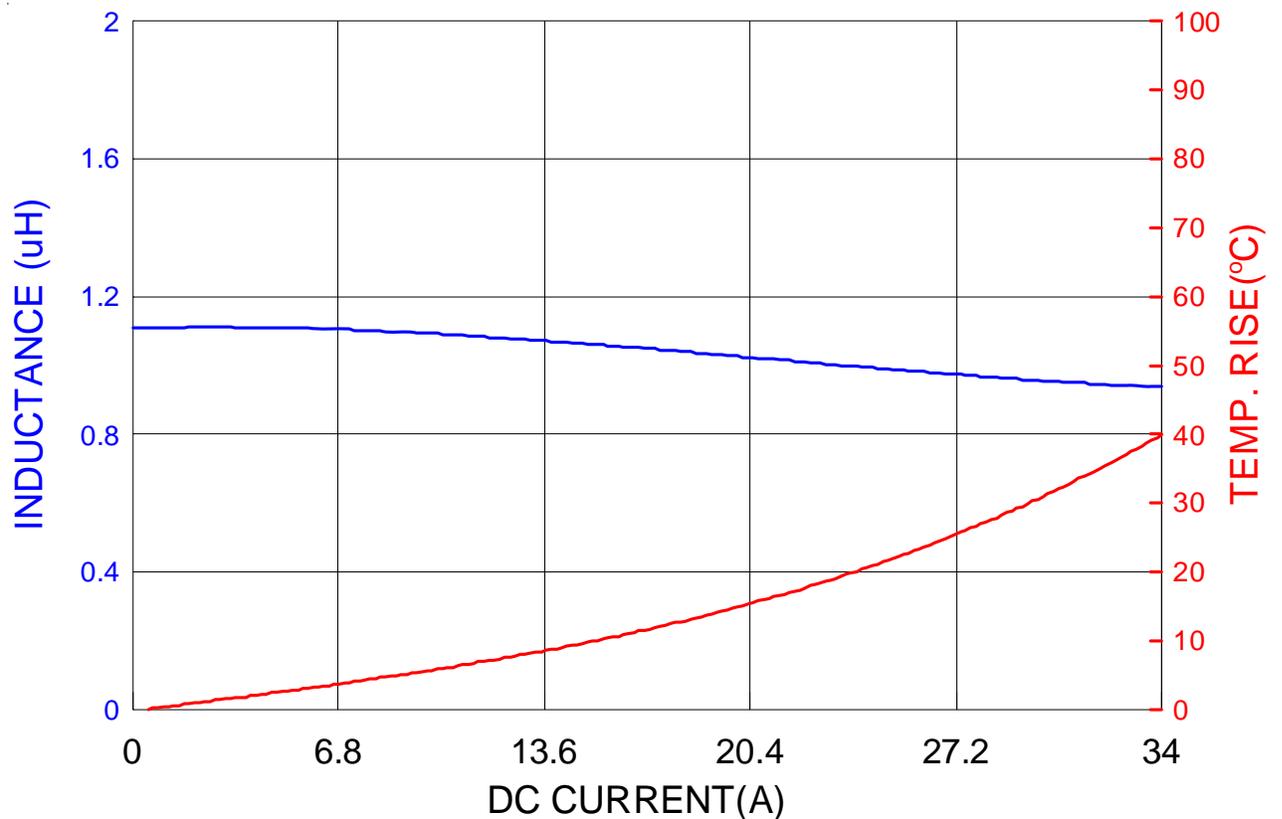
1. Based on ΔT approximately 40°C
2. L drops 25% typical

All test data based on 25°C ambient
 Part temperature (ambient + temp rise) must not exceed 125°C under worst case operating conditions.
 Circuit design, components, PCB trace size, airflow and other cooling provisions all effect the part temperature.

STS1354-R68M



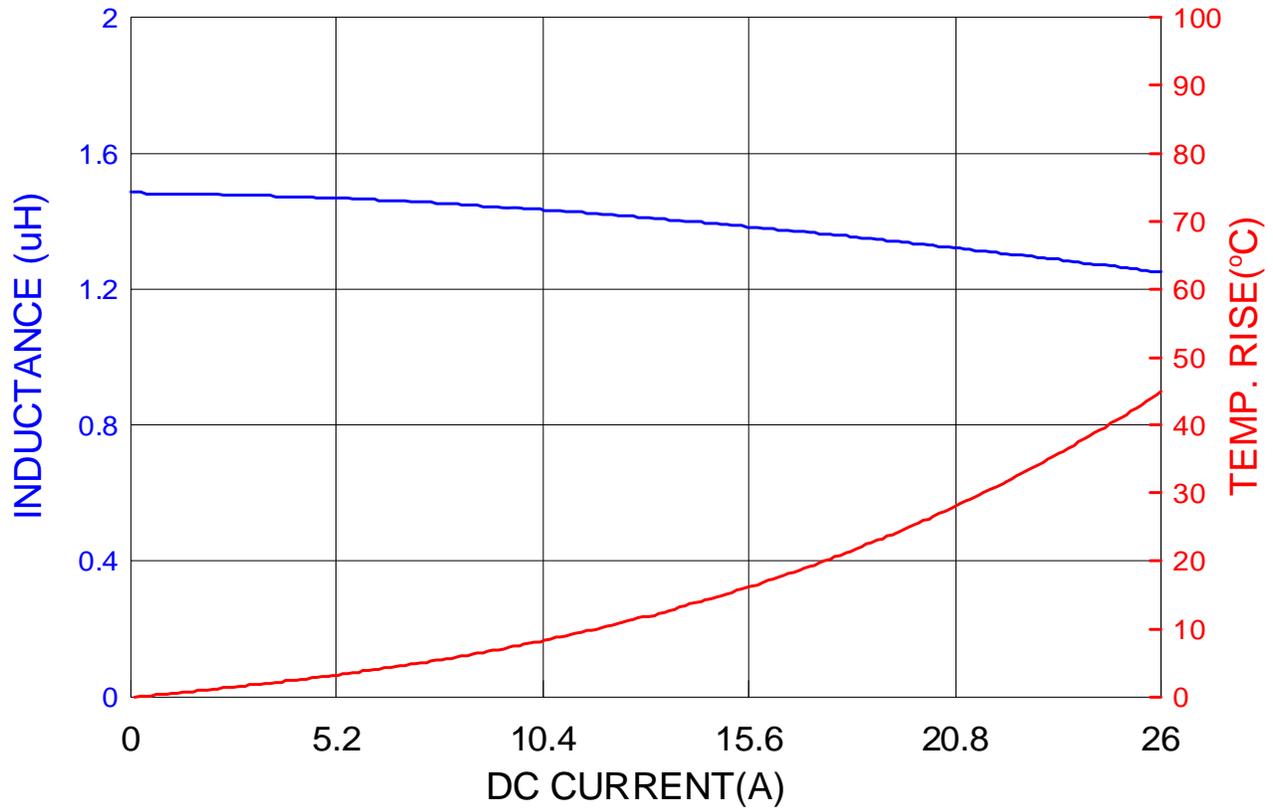
STS1354-1R0M



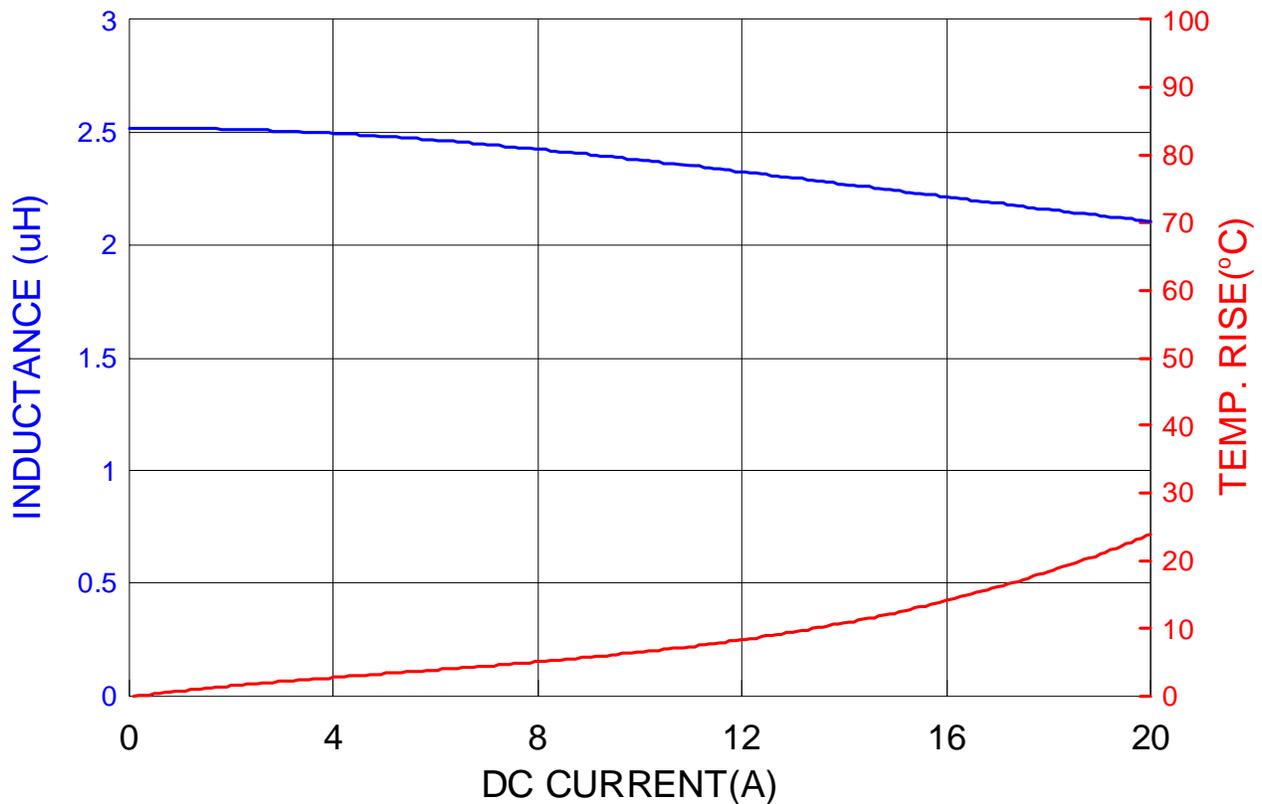
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STS1354-1R4M



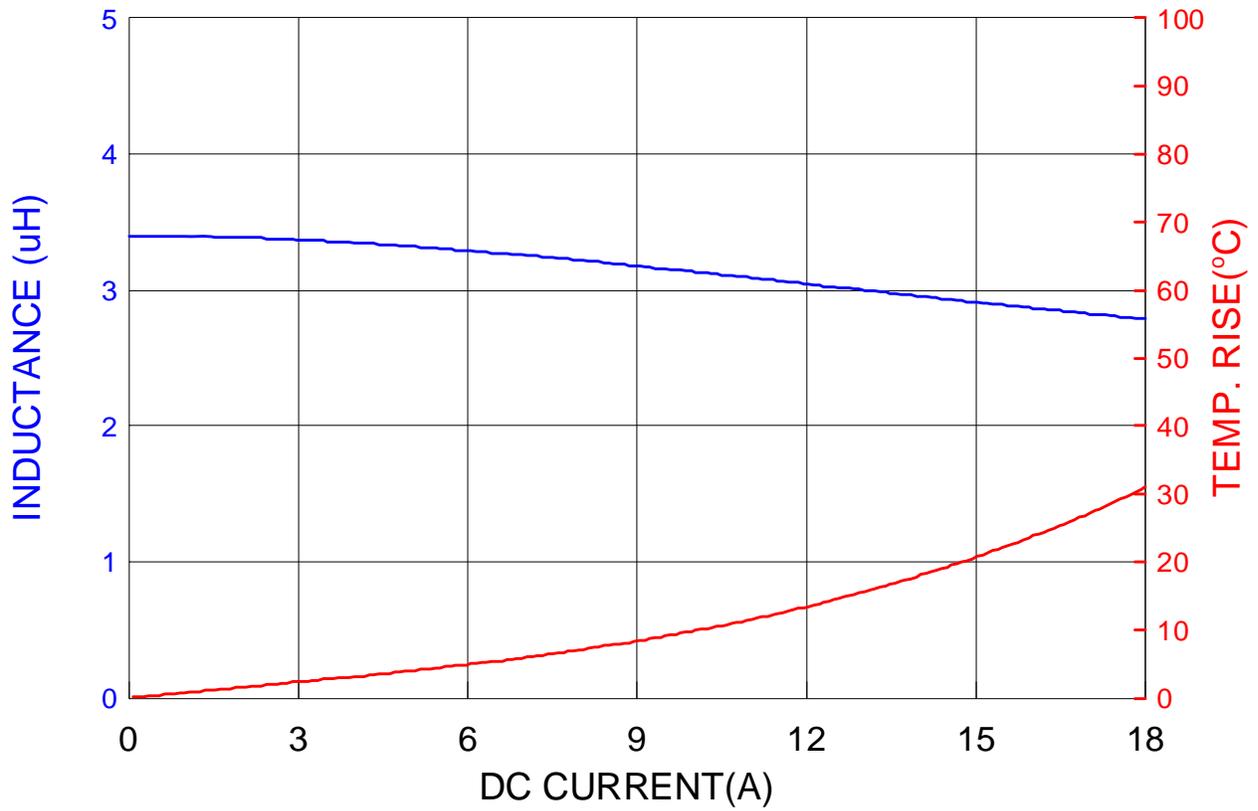
STS1354-2R2M



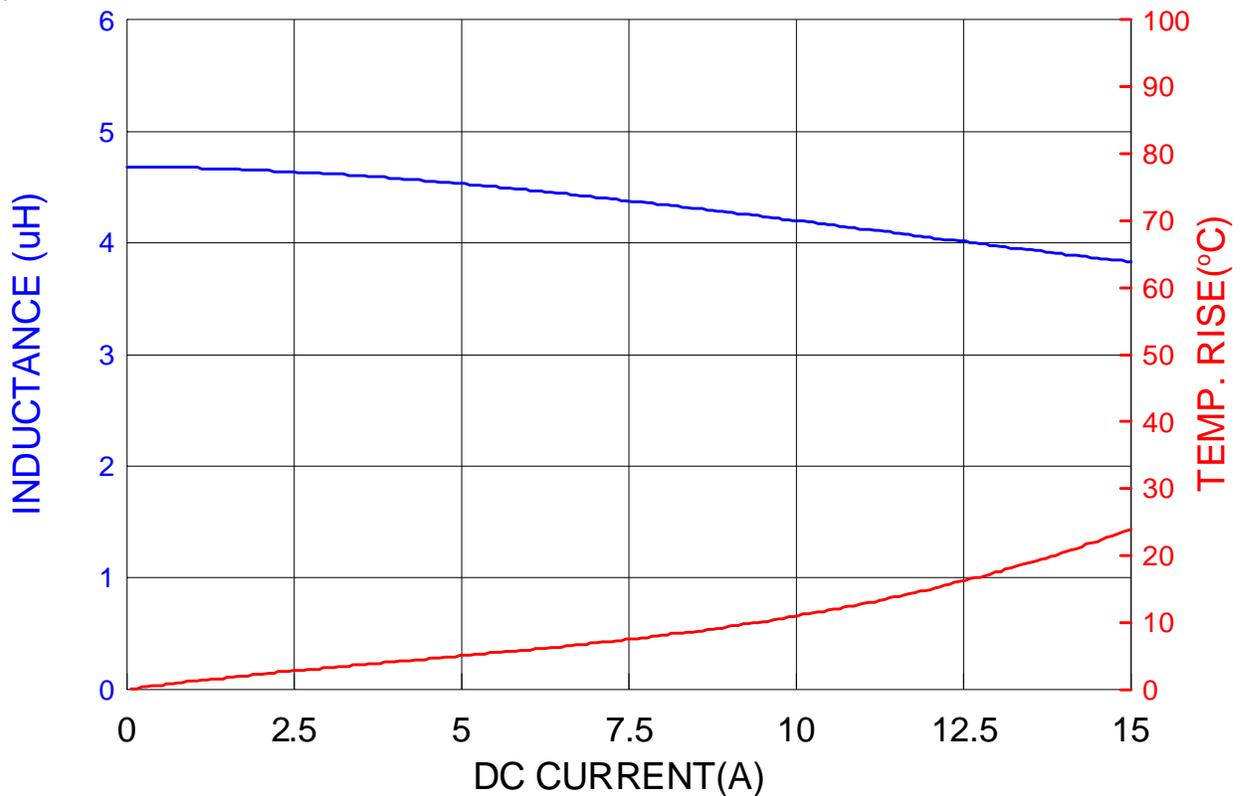
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STS1354-3R3M



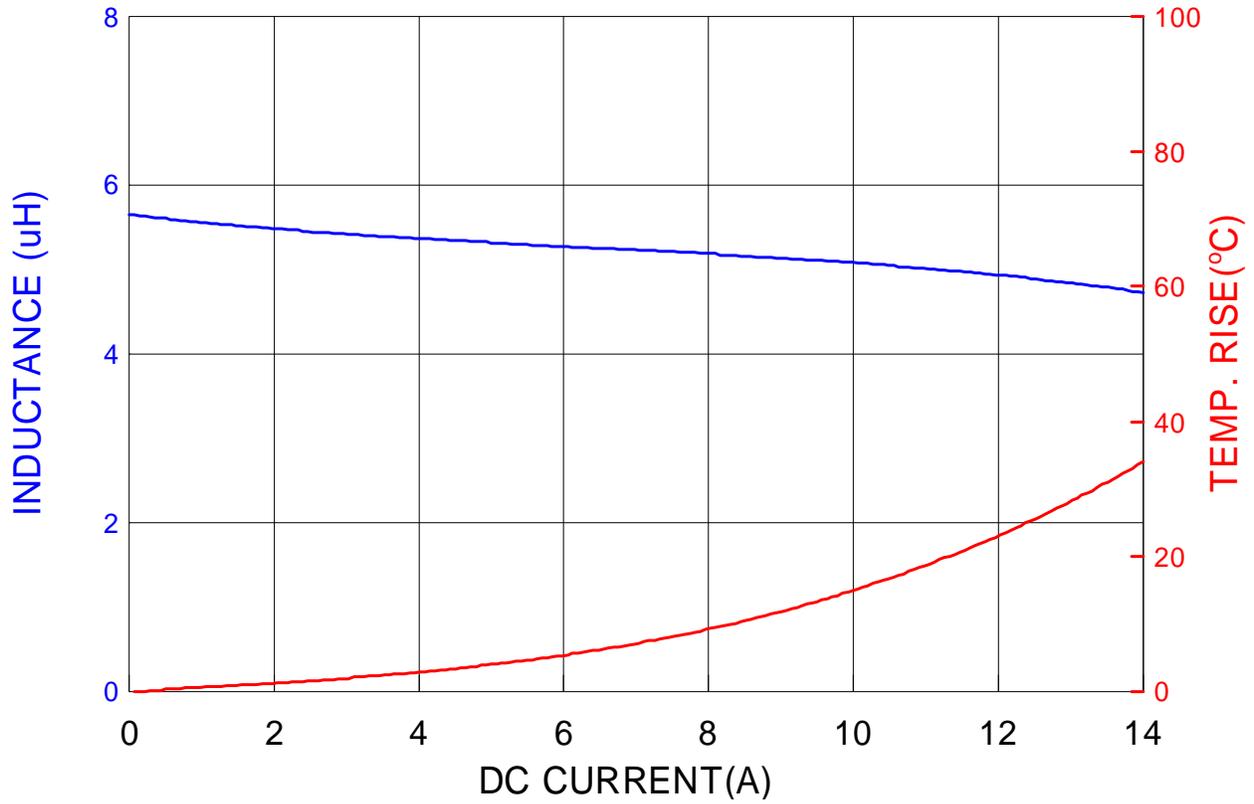
STS1354-4R7M



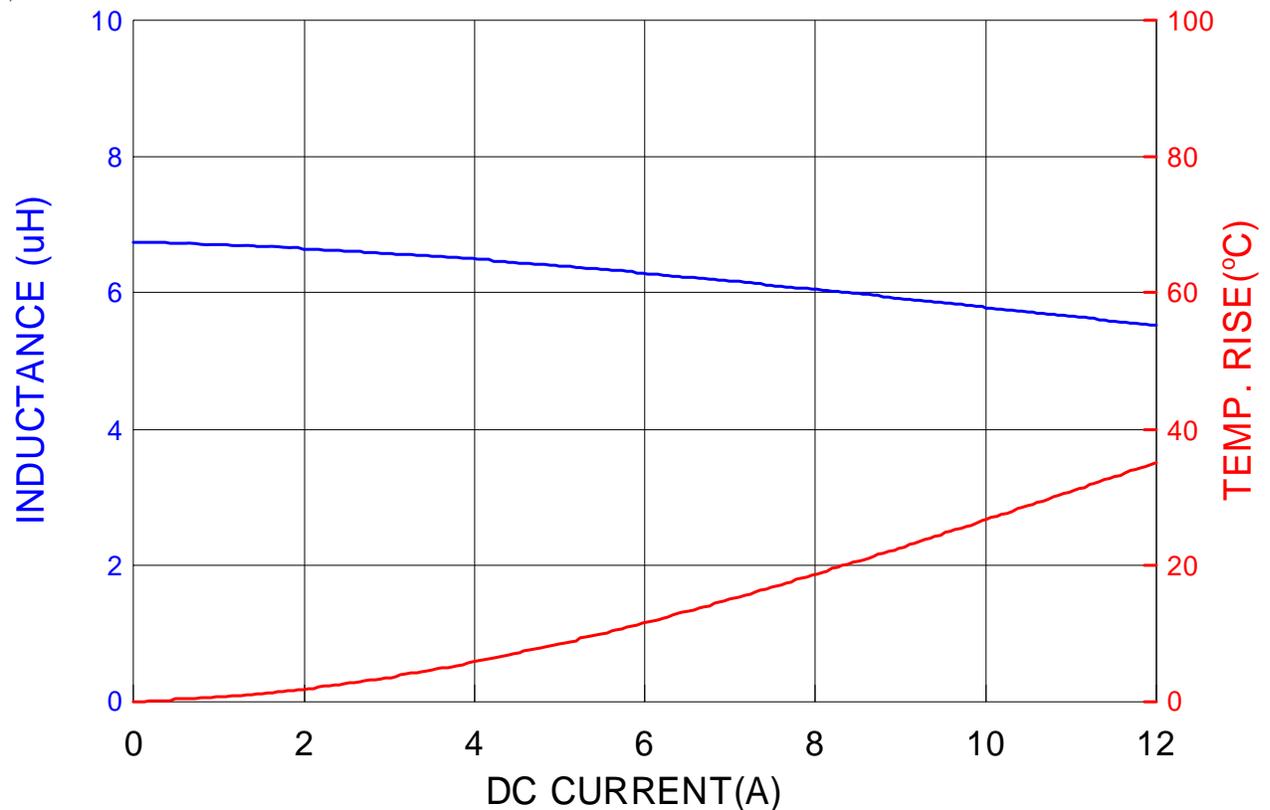
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STS1354-5R6M



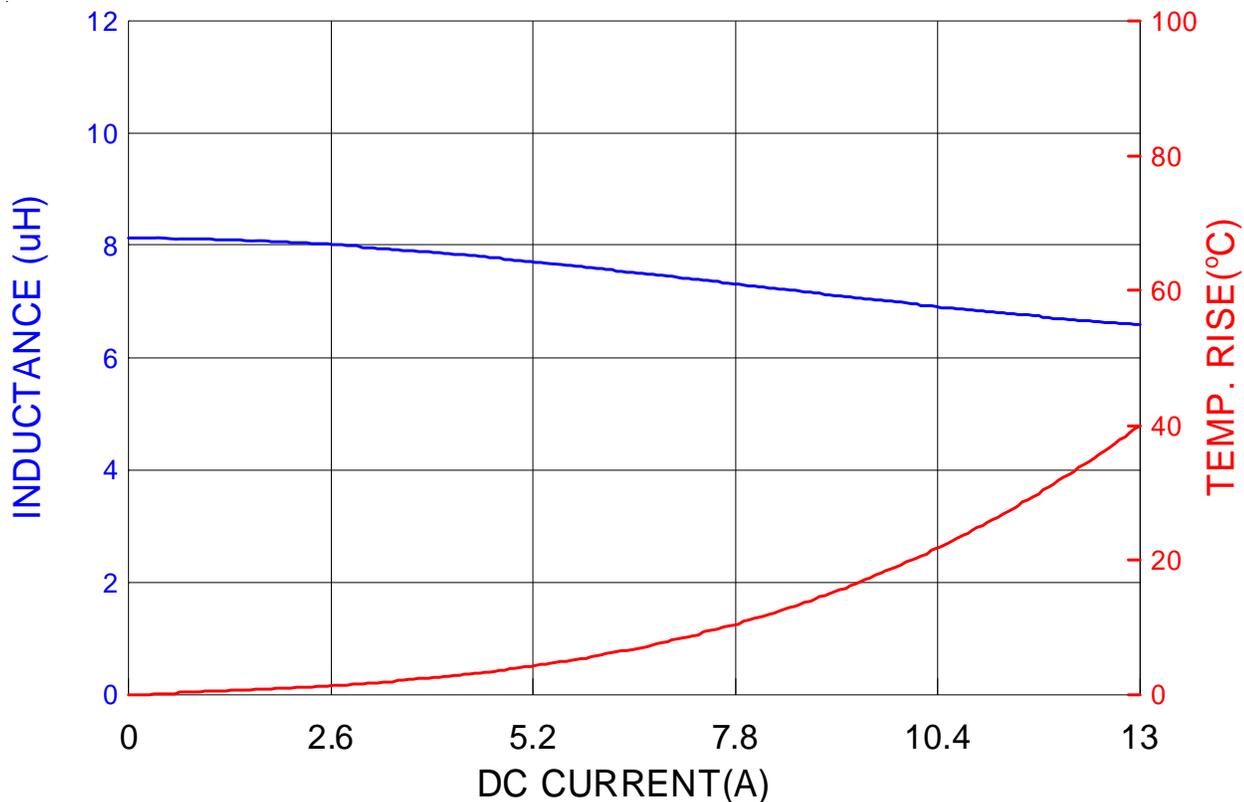
STS1354-6R8M



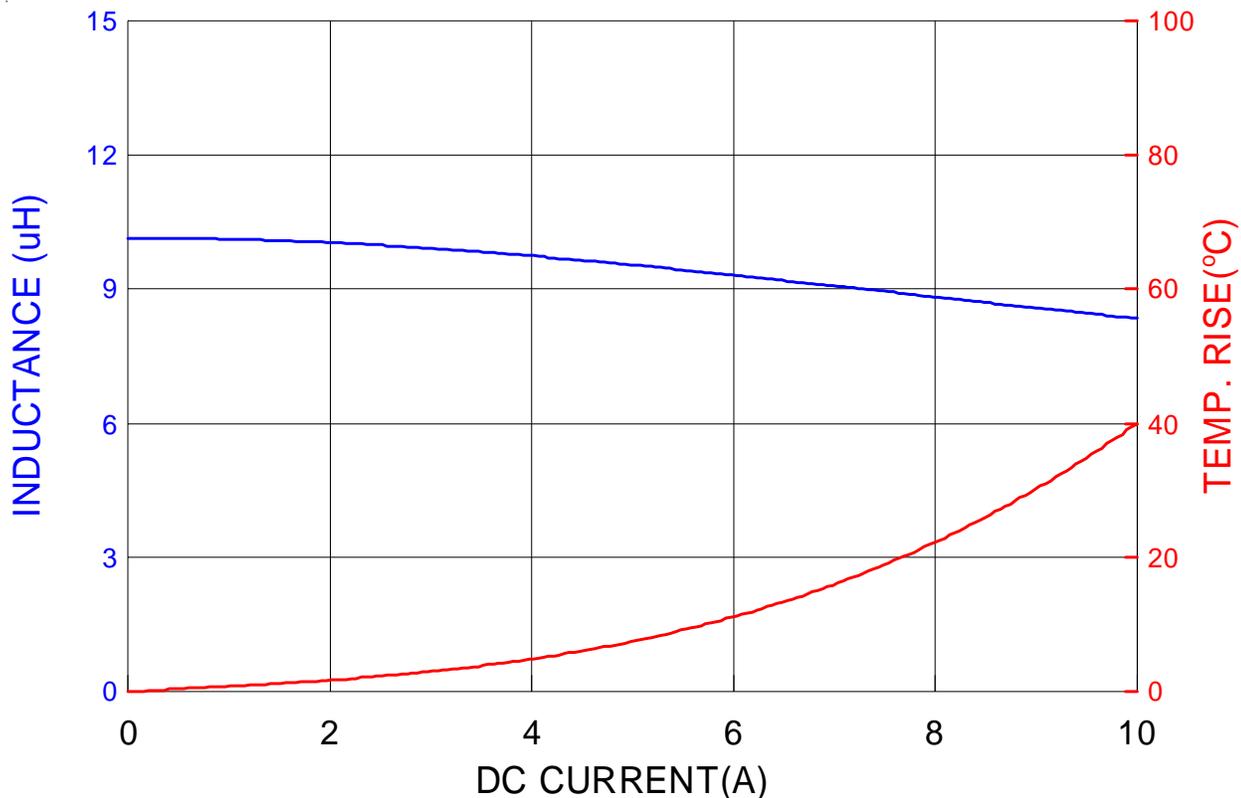
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STS1354-8R2M



STS1354-100M



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