

New Product

**SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES STS1465**

FEATURES

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

ELECTRICAL SPECIFICATIONS

- Inductance range 0.47uH to 10uH
- Test conditions 0.25Vrms @ 100kHz
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

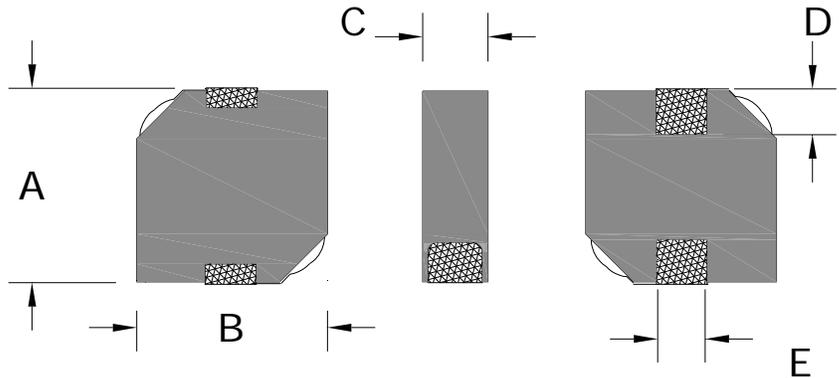
- Operating temp. -55°C to +125°C
- Shielding Mixed Material
- Core & base Mixed Material
- Packaging T & R 400 pieces per reel
- Tape & reel spec. Tape 16 mm embossed carrier
- Reel 330 mm paper reel

SPECIFICATIONS

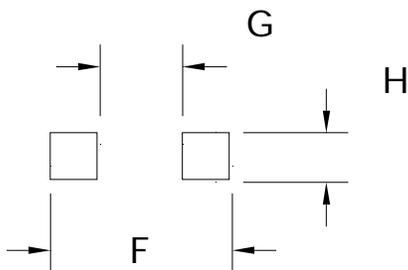
Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)	Saturation Current (A) (Note 2)
STS1465-R47M	0.47	20	0.0012	41	65
STS1465-R68M	0.68	20	0.0016	35	60
STS1465-1R0M	1.0	20	0.0021	32	50
STS1465-1R5M	1.5	20	0.0026	27	48
STS1465-2R2M	2.2	20	0.0042	22	40
STS1465-3R3M	3.3	20	0.0068	18	35
STS1465-4R7M	4.7	20	0.0112	15	30
STS1465-6R8M	6.8	20	0.0140	12	21
STS1465-100M	10	20	0.0168	10	16

Dimensions in millimeters

- Length A 13.7 max
- Width B 13.7 max
- Height C 7.0 max
- Terminal length D 2.5 ± 0.5
- Terminal width E 3.0 ± 0.5
- Footprint length F 15 ref
- Pad spacing G 7 ref
- Pad width H 4.5 ref



Suggested PCB layout



Notes:

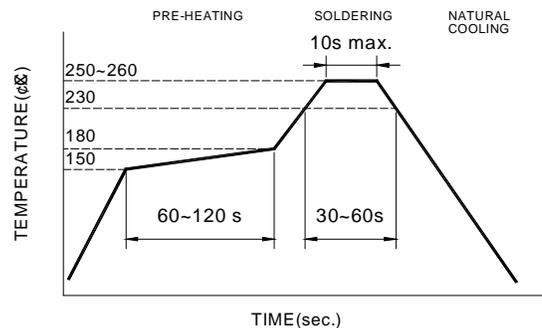
1. Based on ΔT approximately 40°C
2. L drops 30% typical

All test data based on 25°C ambient

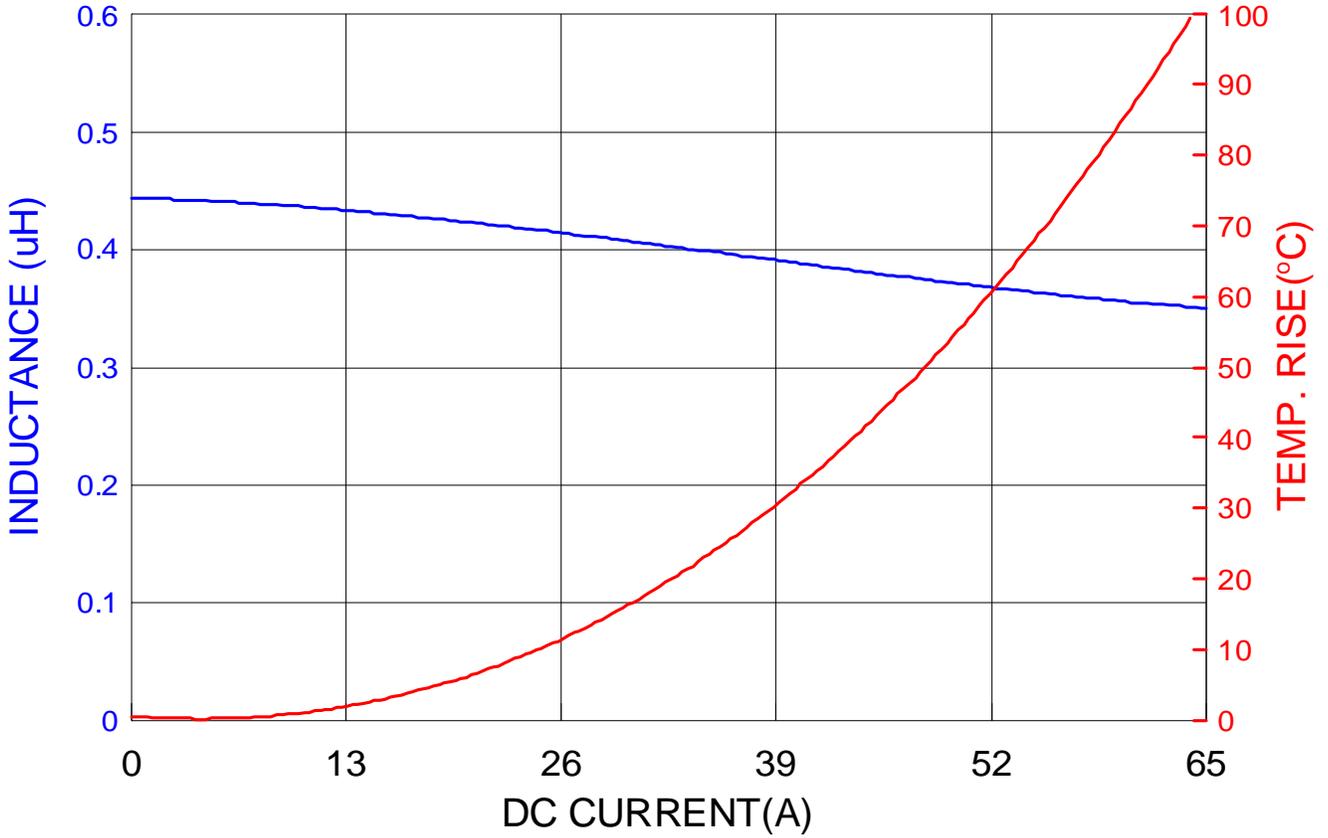
Part temperature (ambient + temp rise) must not exceed 125°C under worst case operating conditions.

Circuit design, components, PCB trace size, airflow and other cooling provisions all effect the part temperature.

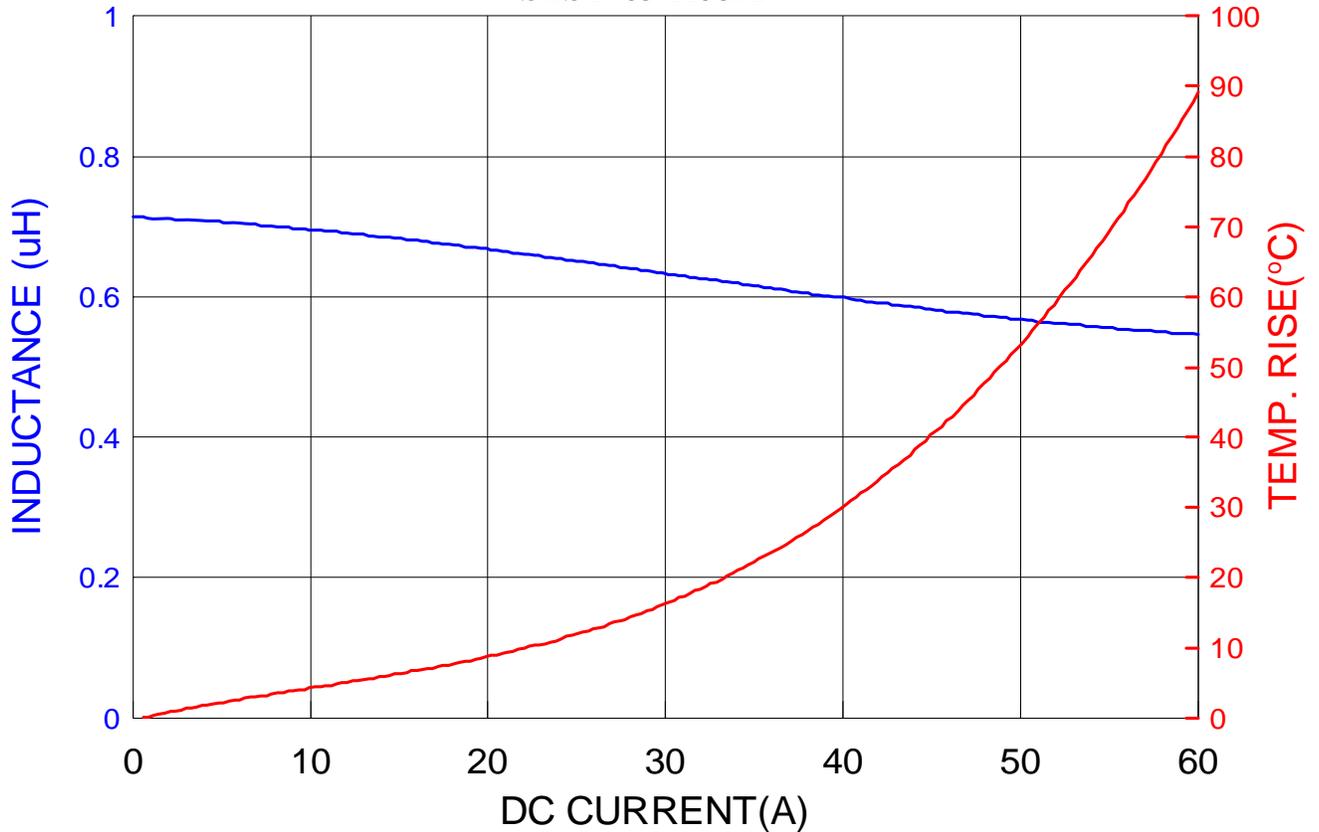
Suggested Reflow Profile



STS1465-R47M



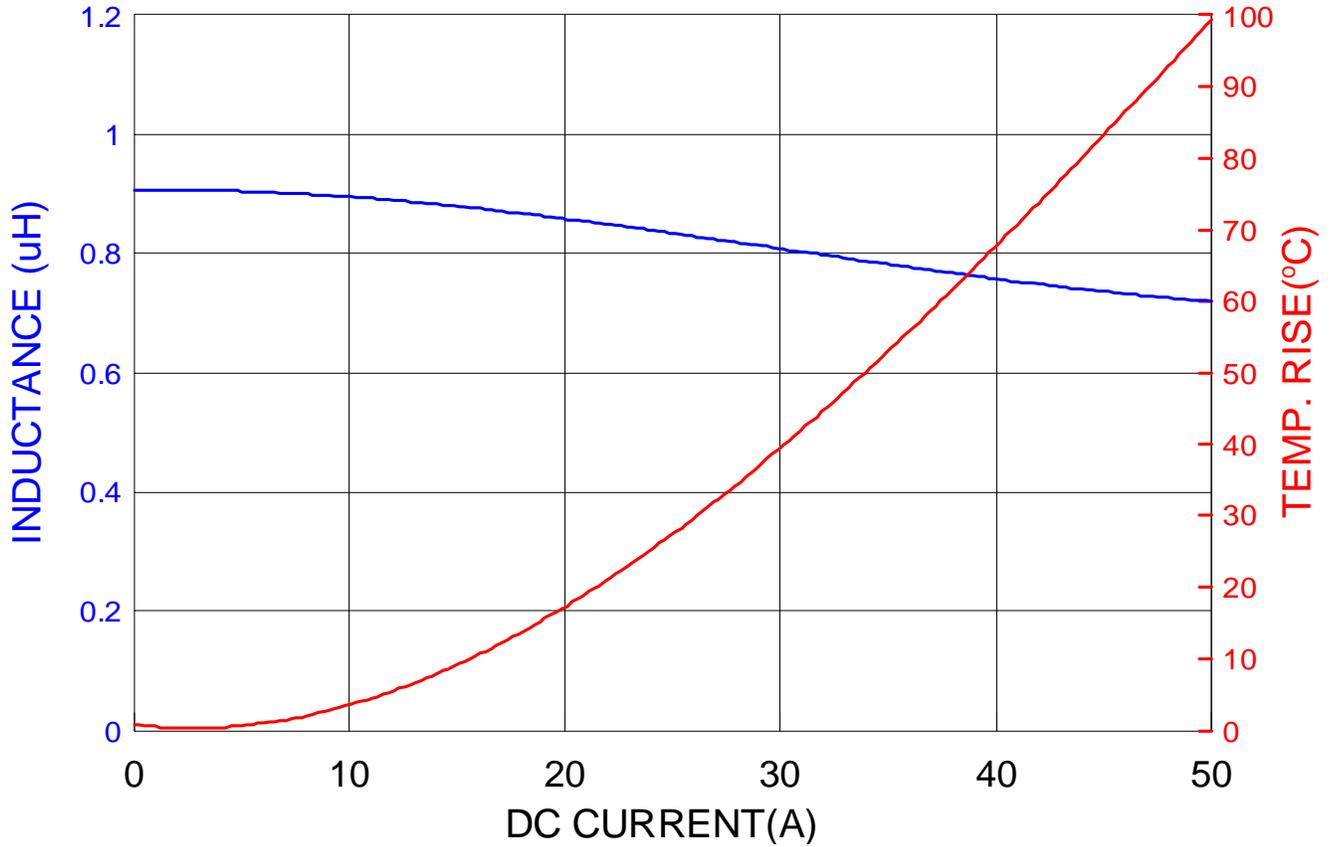
STS1465-R68M



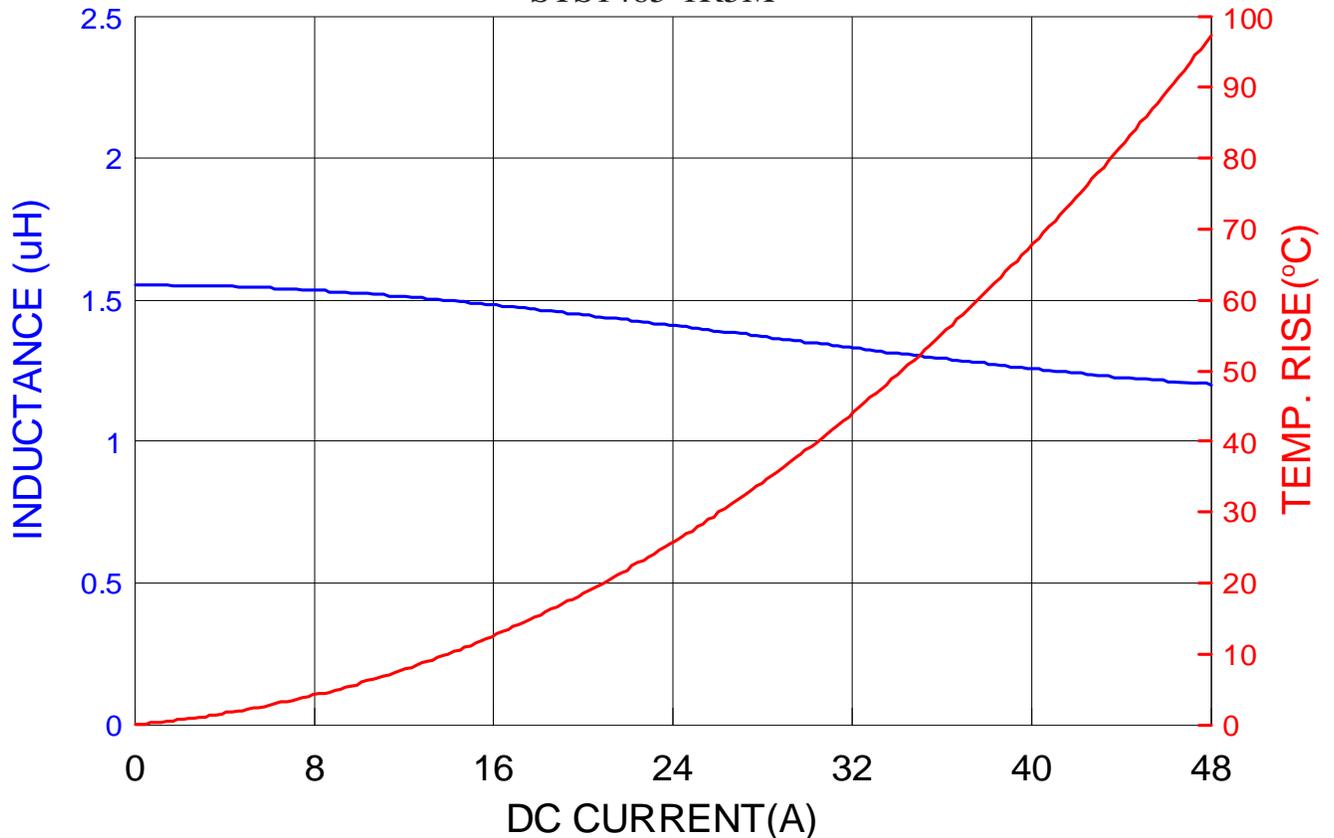
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STS1465-1R0M



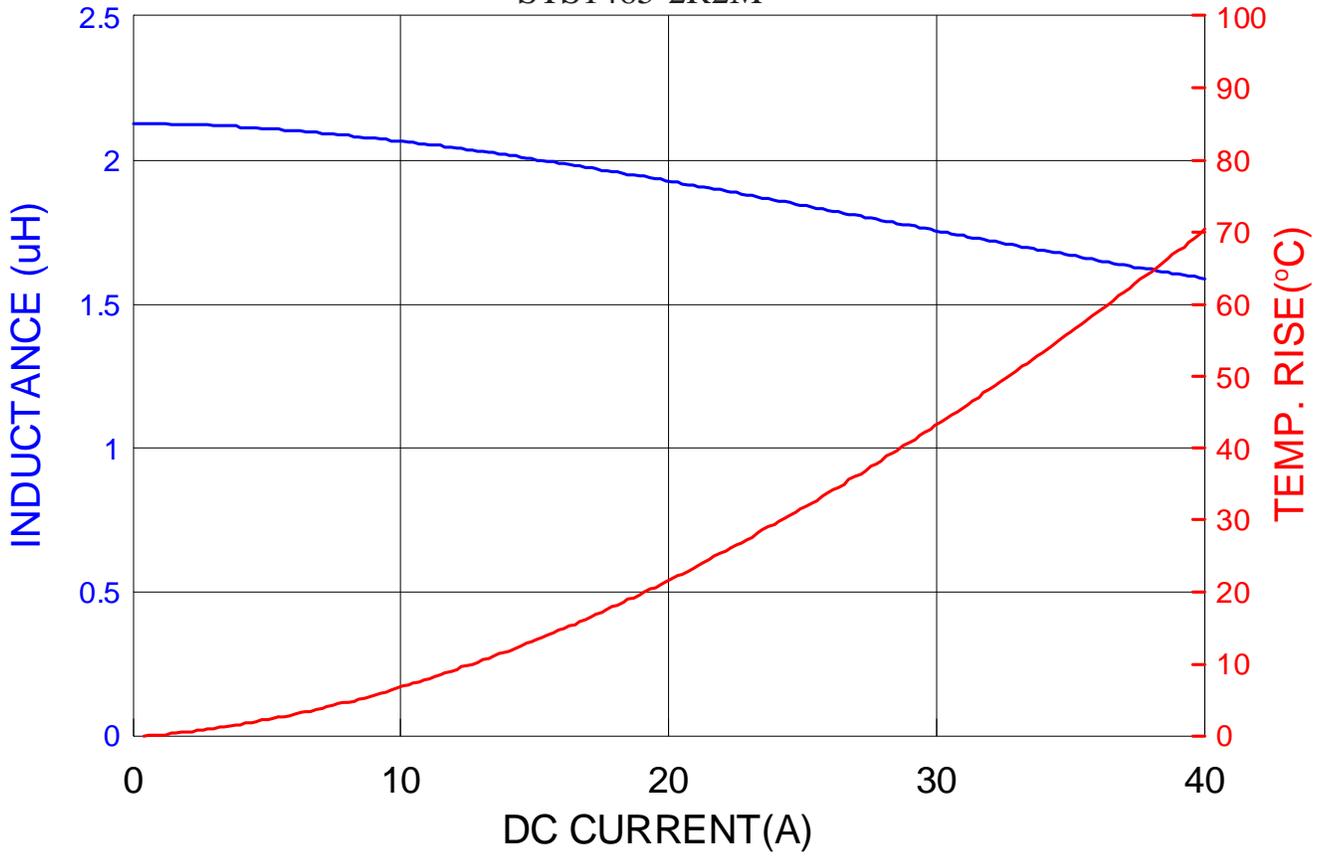
STS1465-1R5M



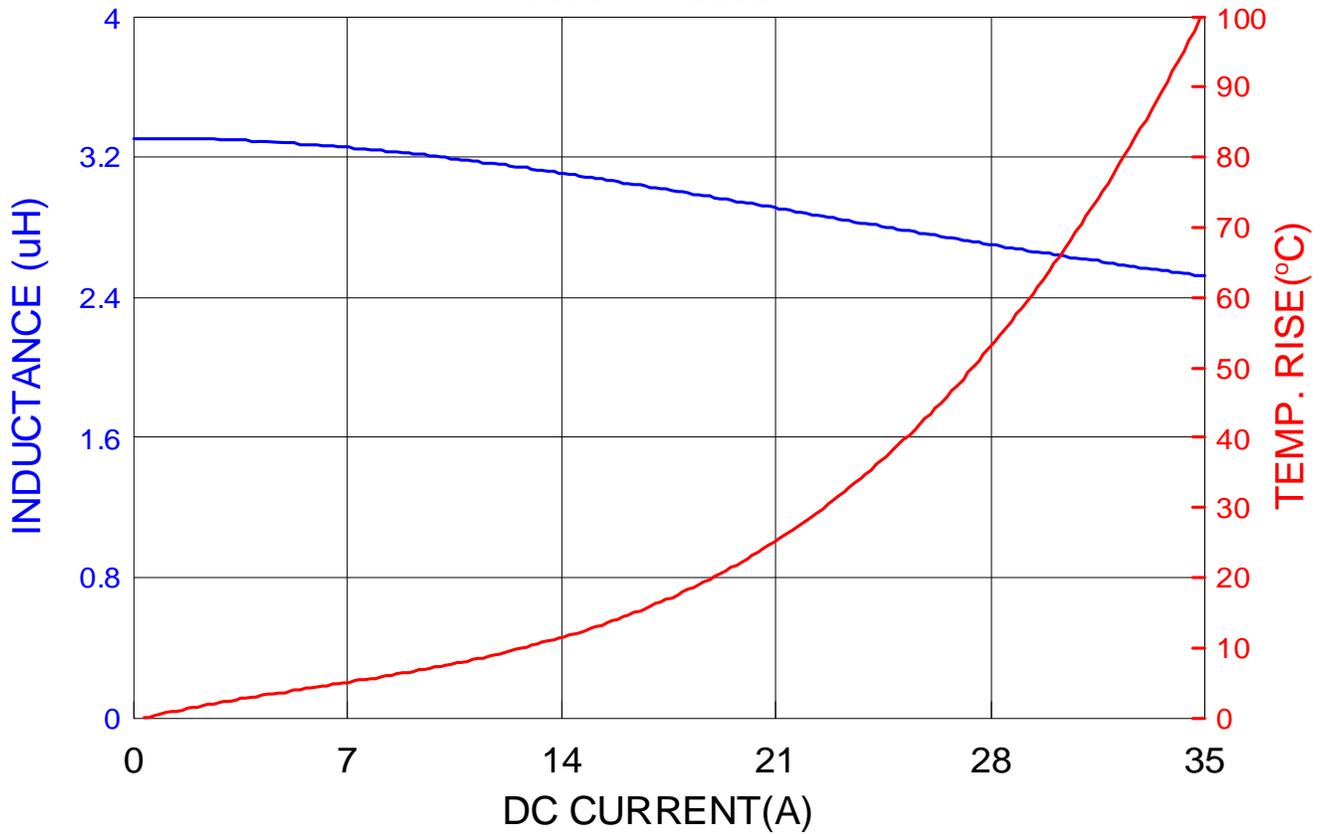
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STS1465-2R2M



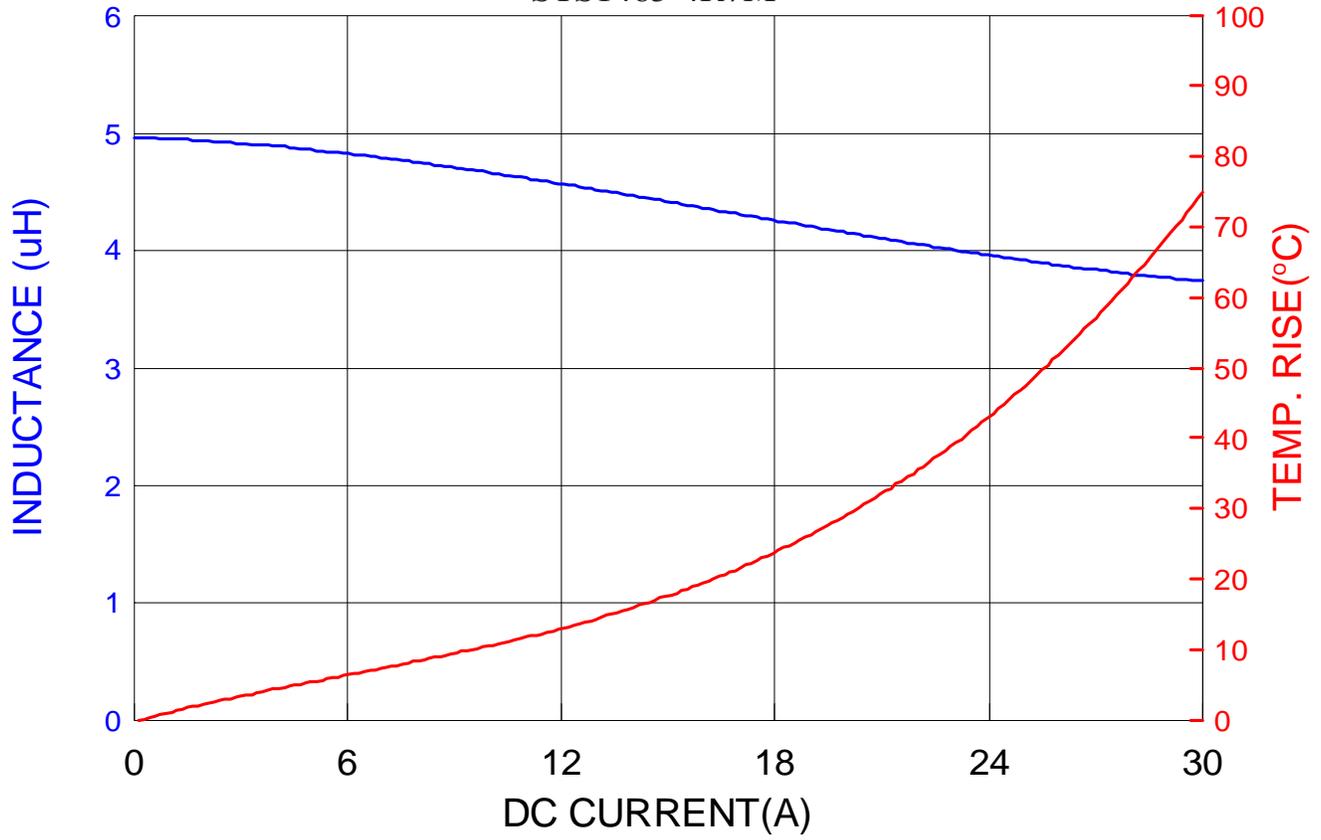
STS1465-3R3M



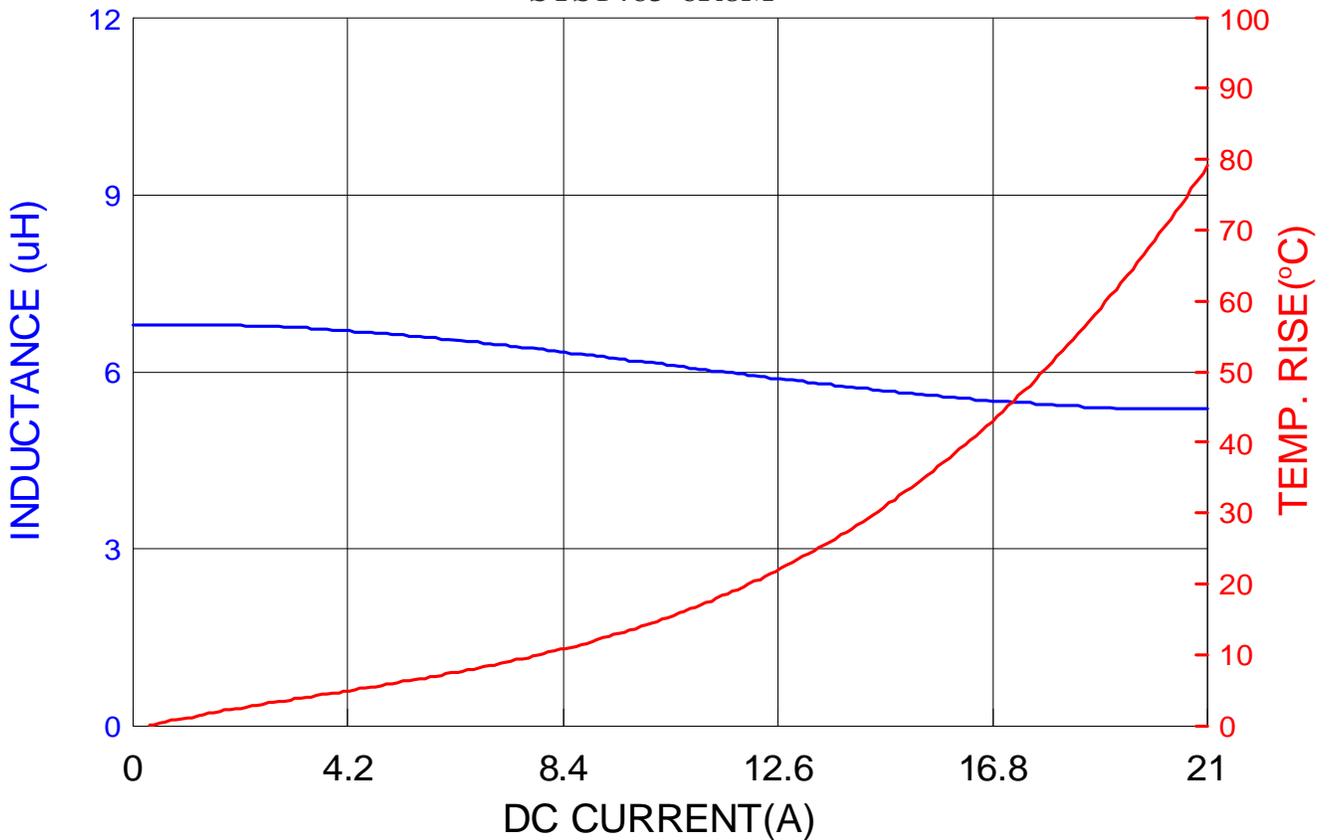
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STS1465-4R7M



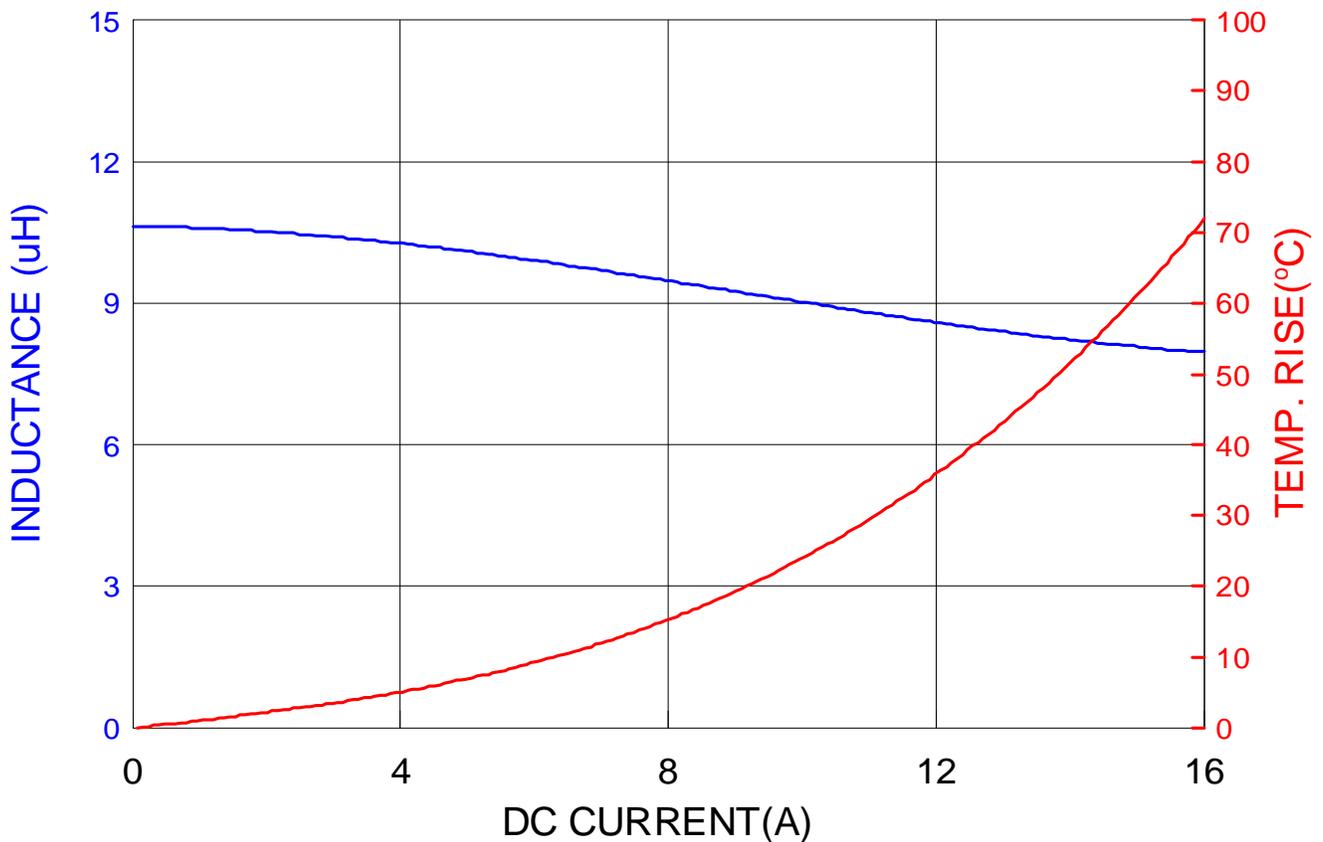
STS1465-6R8M



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STS1465-100M



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