

New Product

**SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES STS725**

FEATURES

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

ELECTRICAL SPECIFICATIONS

- Inductance range 0.33uH to 6.8uH
- Test conditions 1Vrms @ 100kHz
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

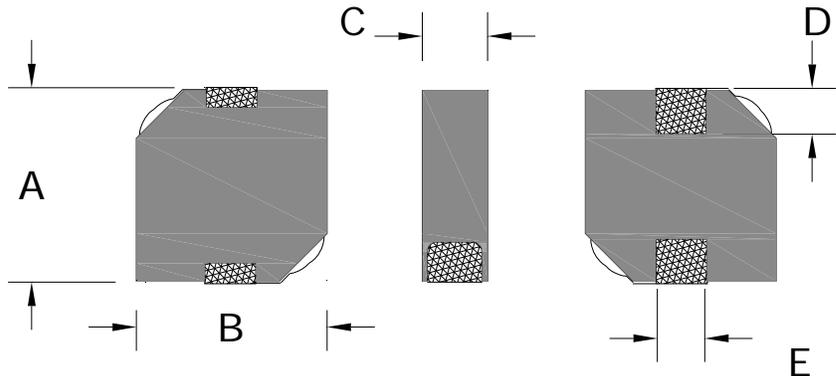
- Operating temp. -55°C to +125°C
- Shielding Mixed Material
- Core & base Mixed Material
- Packaging T & R 1000 pieces per reel
- Tape & reel spec. Tape 16 mm embossed carrier
- Reel 330 mm paper reel

SPECIFICATIONS

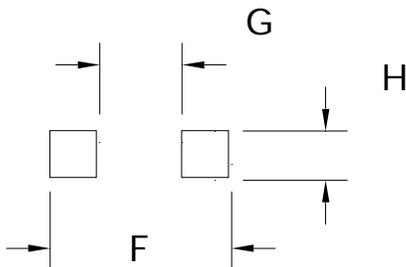
Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)	Saturation Current (A) (Note 2)
STS725-R33M	0.33	20	0.0041	18.0	22
STS725-R47M	0.47	20	0.0065	13.5	17
STS725-R68M	0.68	20	0.0094	11.0	16
STS725-1R0M	1.0	20	0.014	9.0	11
STS725-1R5M	1.5	20	0.021	7.5	9
STS725-2R2M	2.2	20	0.030	6.5	7.5
STS725-3R3M	3.3	20	0.039	5.0	5.8
STS725-4R7M	4.7	20	0.045	4.5	4.5
STS725-6R8M	6.8	20	0.065	3.5	4.2

Dimensions in millimeters

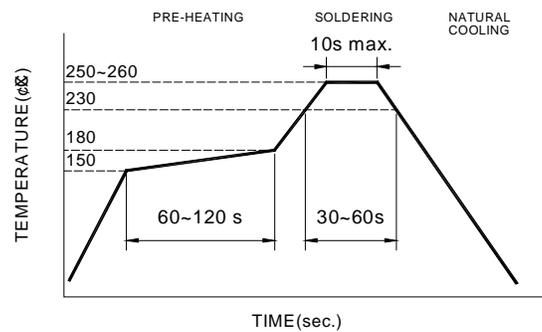
- Length A 7.8 max
- Width B 7.0 max
- Height C 2.5 max
- Terminal length D 1.6 ± 0.5
- Terminal width E 2.1 ± 0.5
- Footprint length F 8.7 ref
- Pad spacing G 3.7 ref
- Pad width H 3.5 ref



Suggested PCB layout



Suggested Reflow Profile

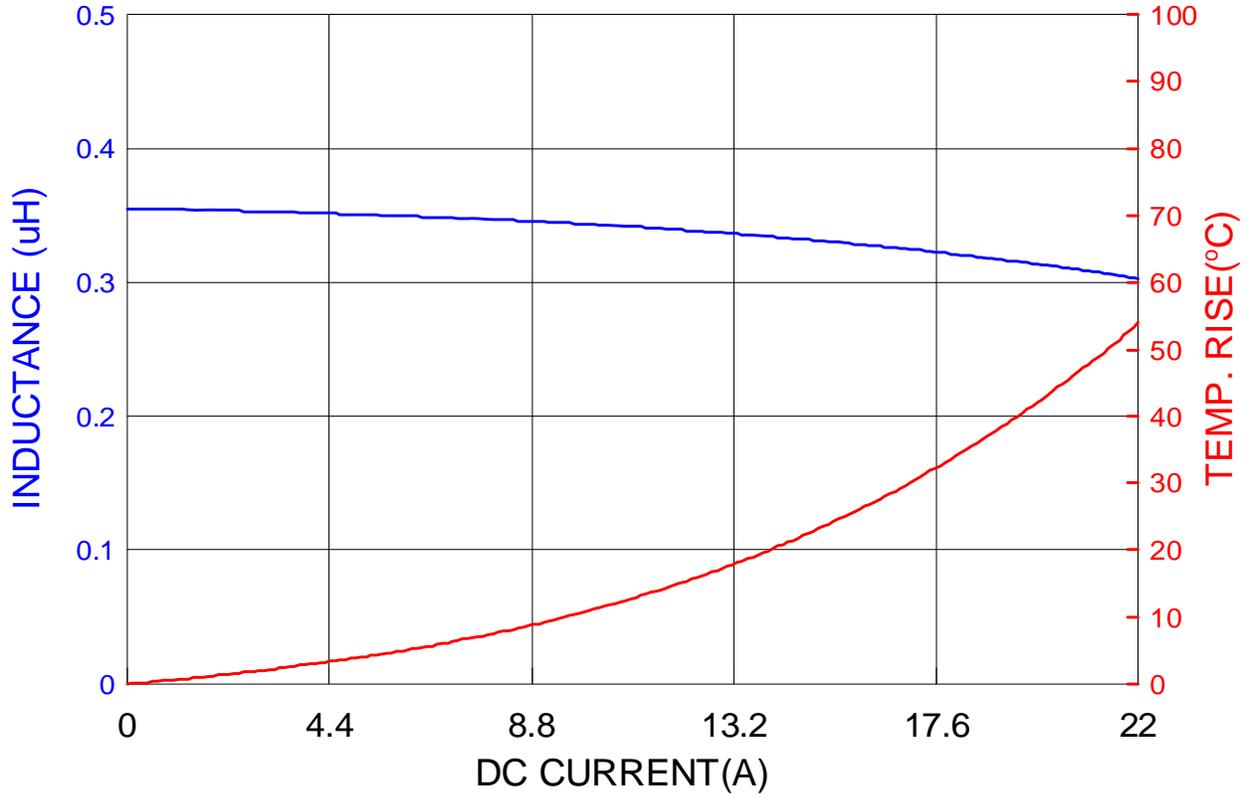


Notes:

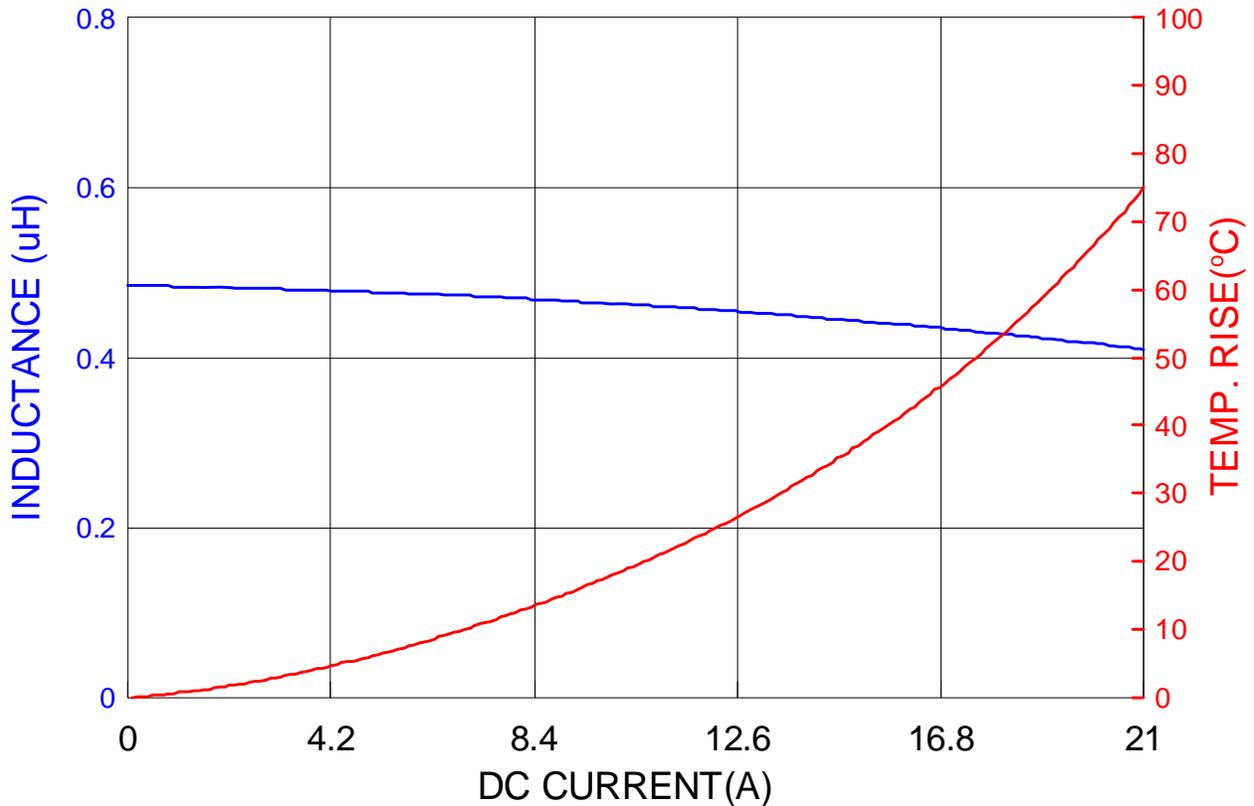
1. Based on ΔT approximately 40°C
2. L drops 20% typical

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.

STS725-R33M



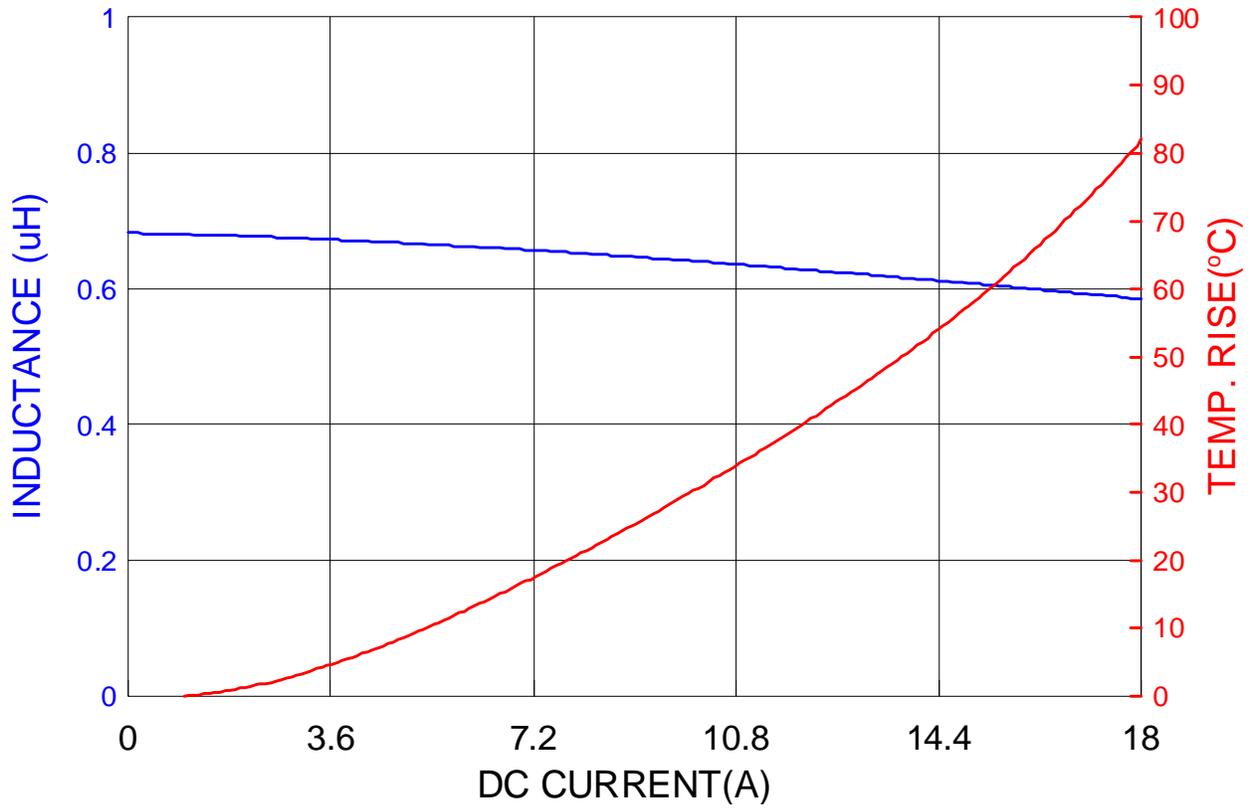
STS725-R47M



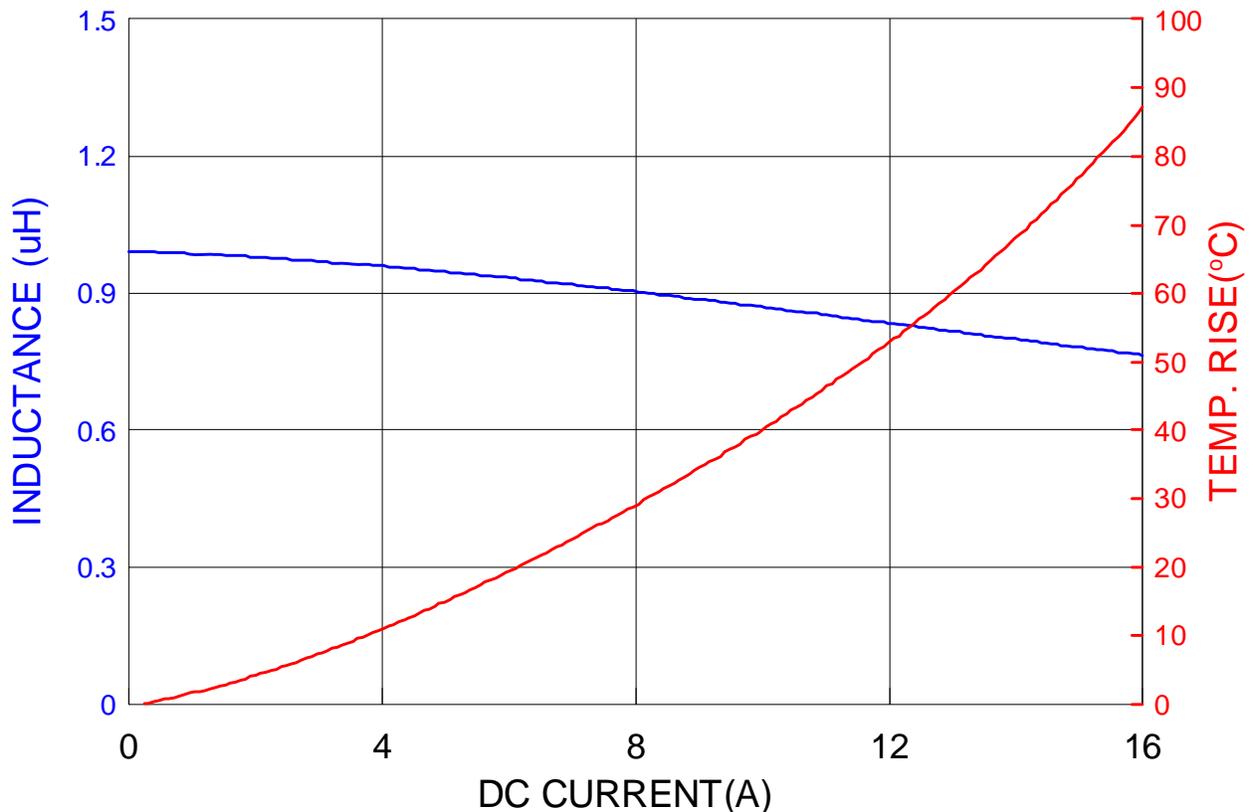
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STS725-R68M



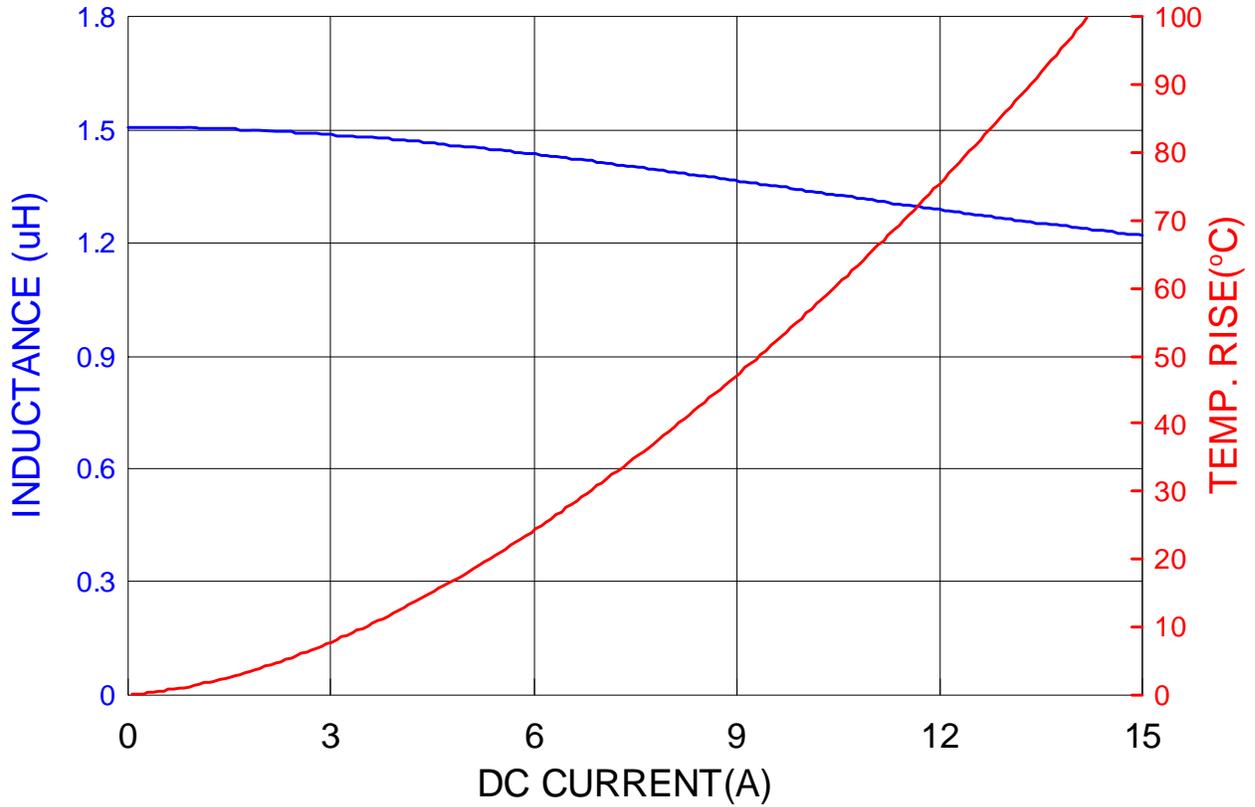
STS725-1R0M



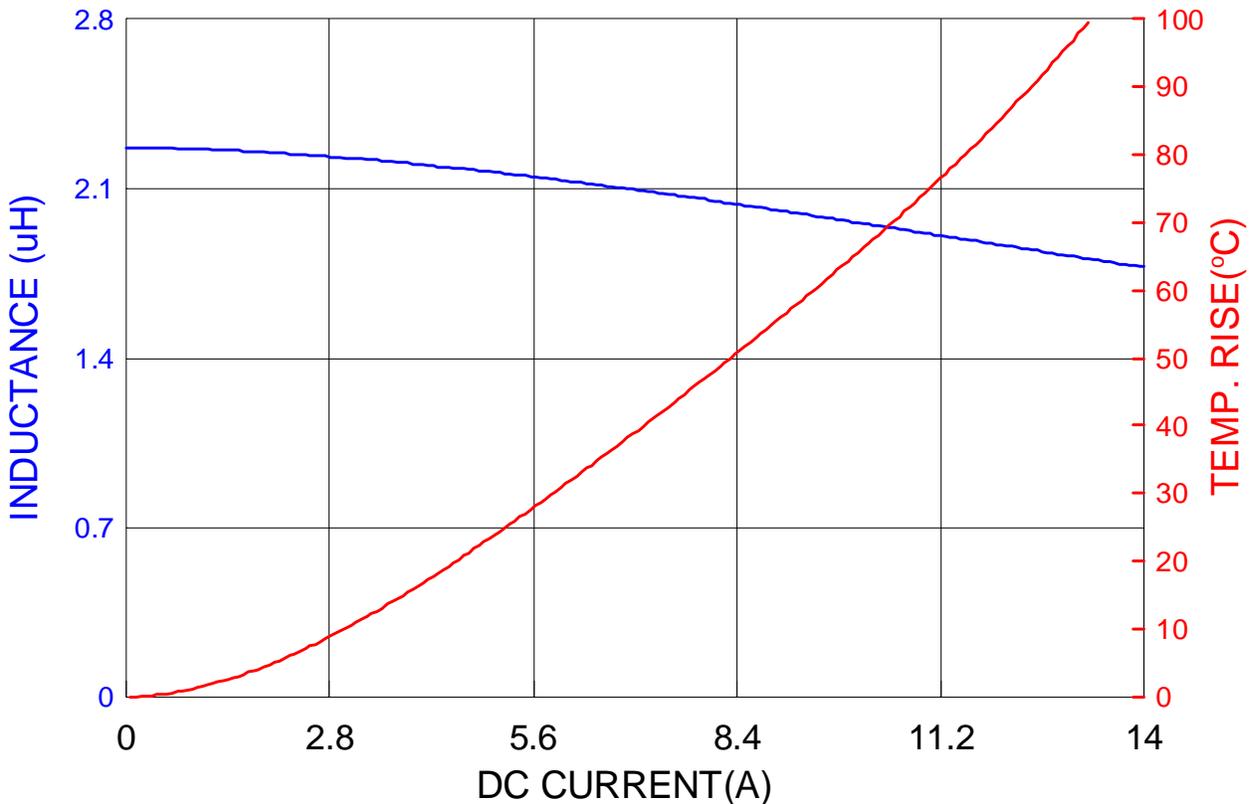
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STS725-1R5M



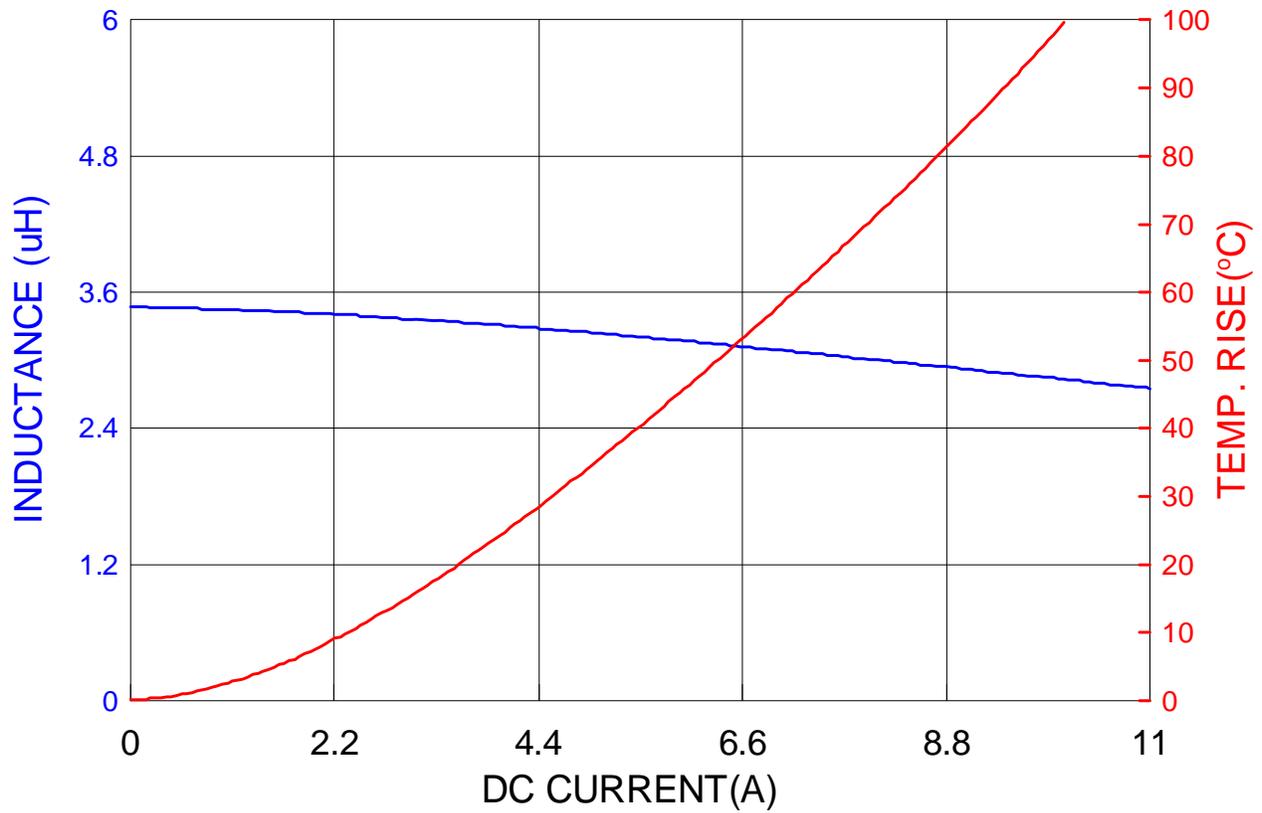
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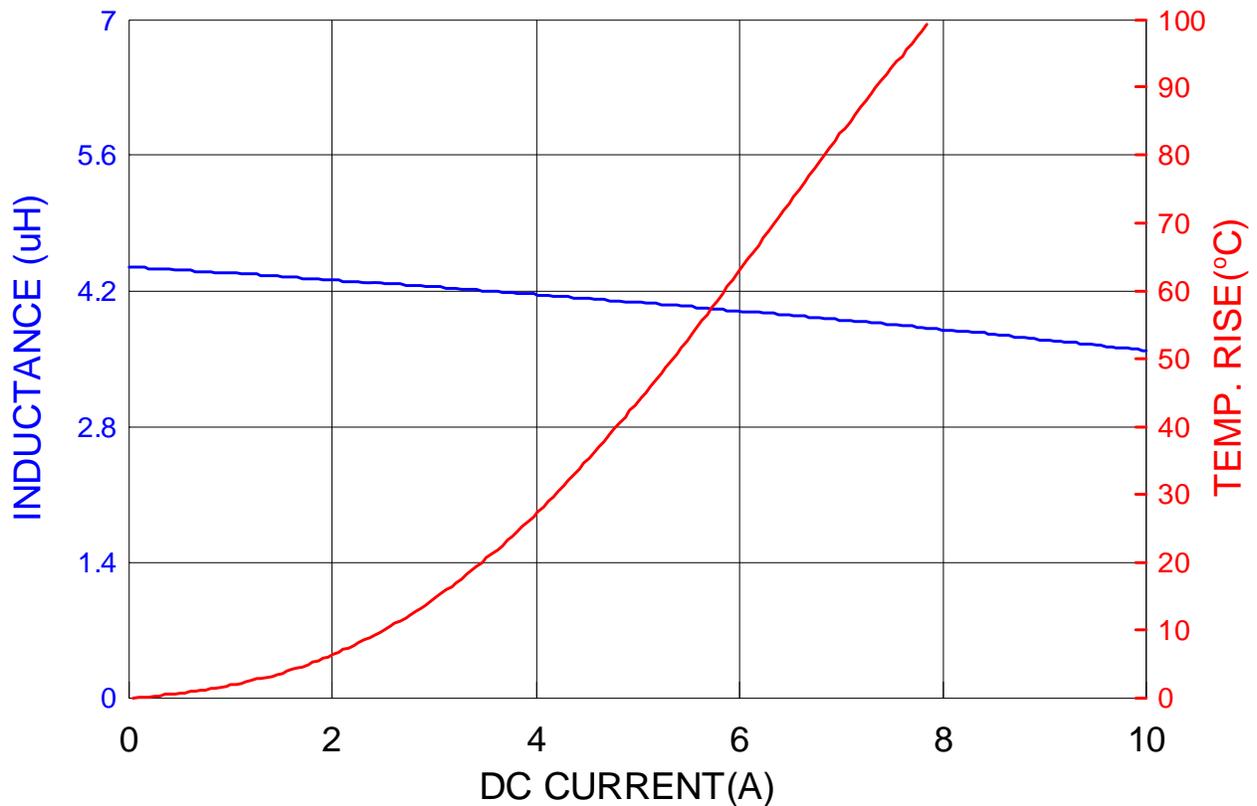
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STS725-3R3M



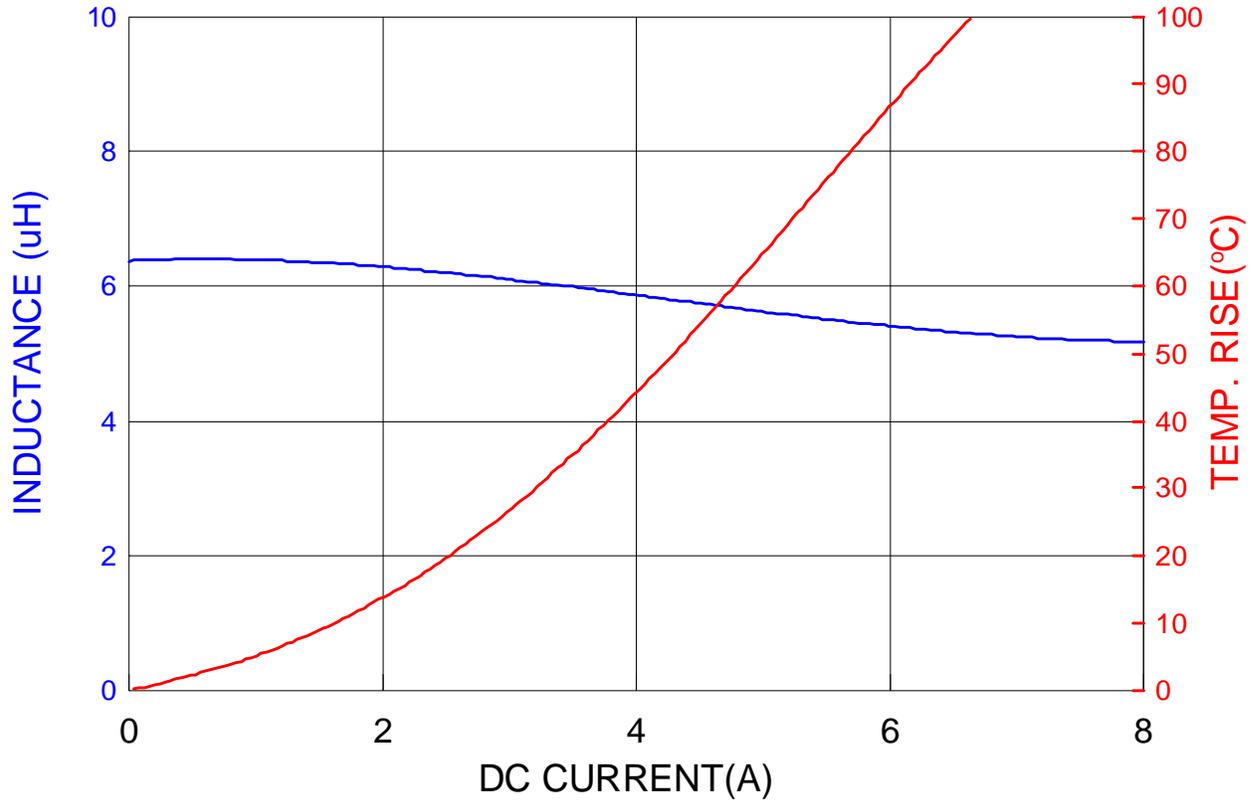
STS725-4R7M



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STS725-6R8M



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