

## New Product

**SURFACE MOUNT  
SHIELDED POWER INDUCTOR  
SERIES STS702**

### 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 4.7uH
- Test condition       1Vrms @ 100kHz
- Test equipment       Quadtech 1750 LCR Meter

### PHYSICAL SPECIFICATIONS

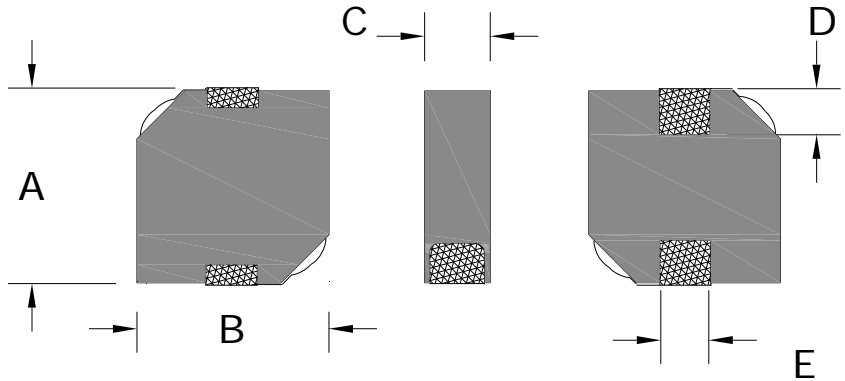
- Operating temp.       -55°C to +125°C
- Shielding               Mixed Material
- Core & base            Mixed Material
- Packaging               T & R    1500 pieces per reel
- Tape & reel spec.     Tape    16 mm embossed carrier
- Reel    330 mm paper reel

### SPECIFICATIONS

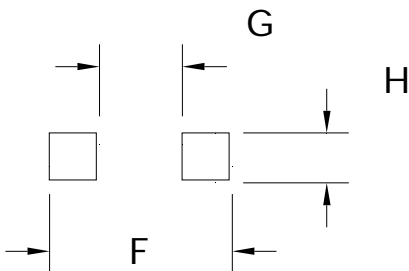
Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)	Saturation Current (A) (Note 2)
STS702-R33M	0.33	20	0.0070	12	16
STS702-R47M	0.47	20	0.0093	11	12
STS702-R68M	0.68	20	0.014	9	11
STS702-1R5M	1.5	20	0.034	4	7
STS702-2R2M	2.2	20	0.046	5	5
STS702-4R7M	4.7	20	0.078	3	3

### Dimensions in millimeters

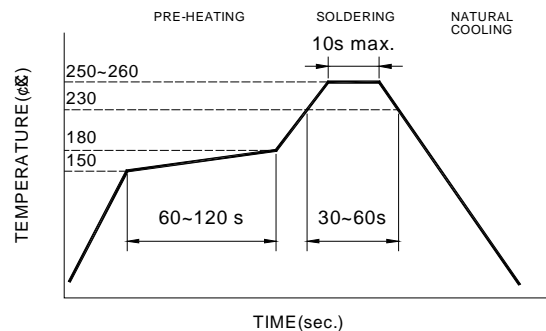
Length A	7.8 max
Width B	7.0 max
Height C	2.0 max
Terminal length D	1.6 ± 0.5
Terminal width E	2.1 ± 0.5
Footprint length F	7.4 ref
Pad spacing G	3.7 ref
Pad width H	3.4 ref



### Suggested PCB layout



### Suggested Reflow Profile

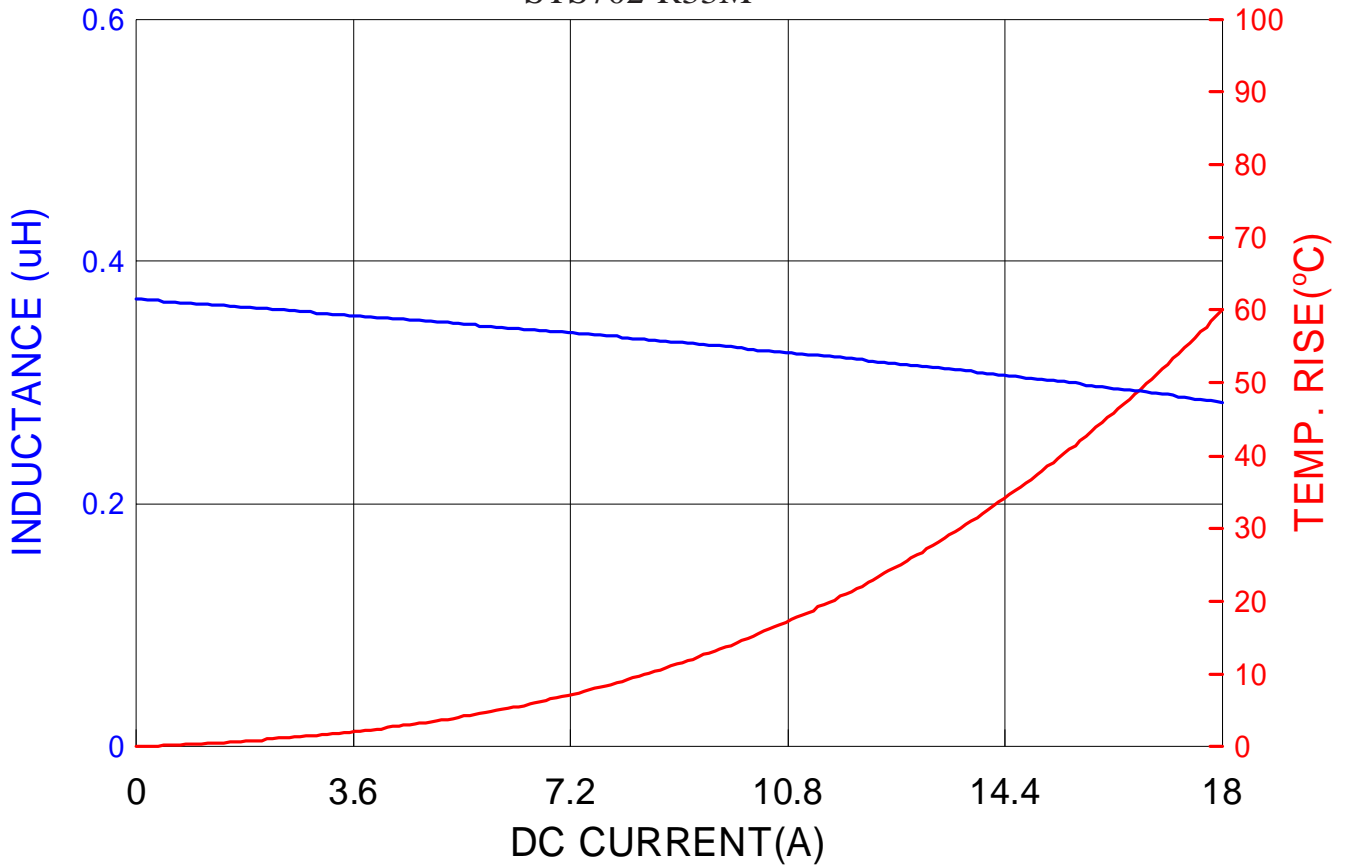


**Notes:**

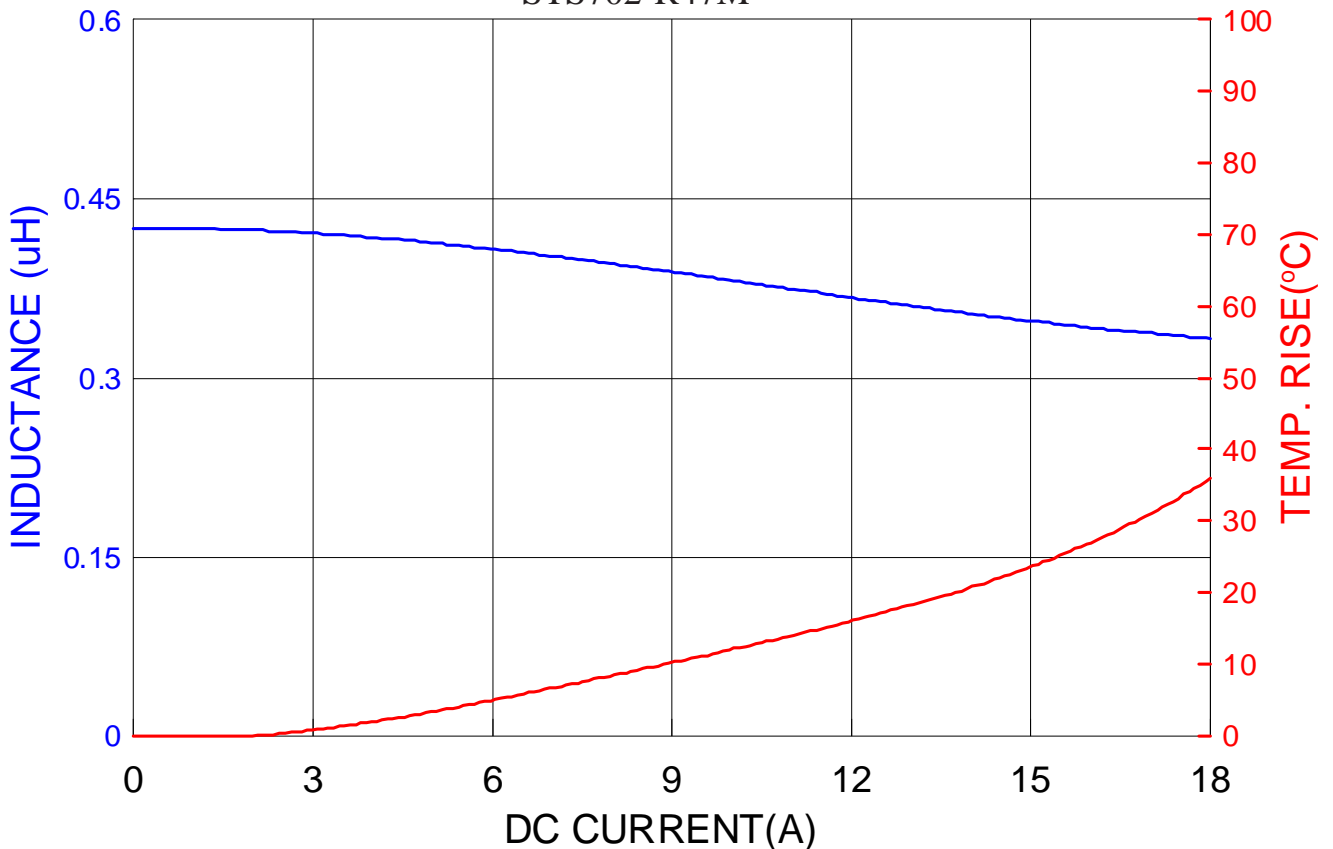
1. Based on  $\Delta T$  approximately 40°C
2. Based on  $\Delta L$  of 20% typical

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.

STS702-R33M

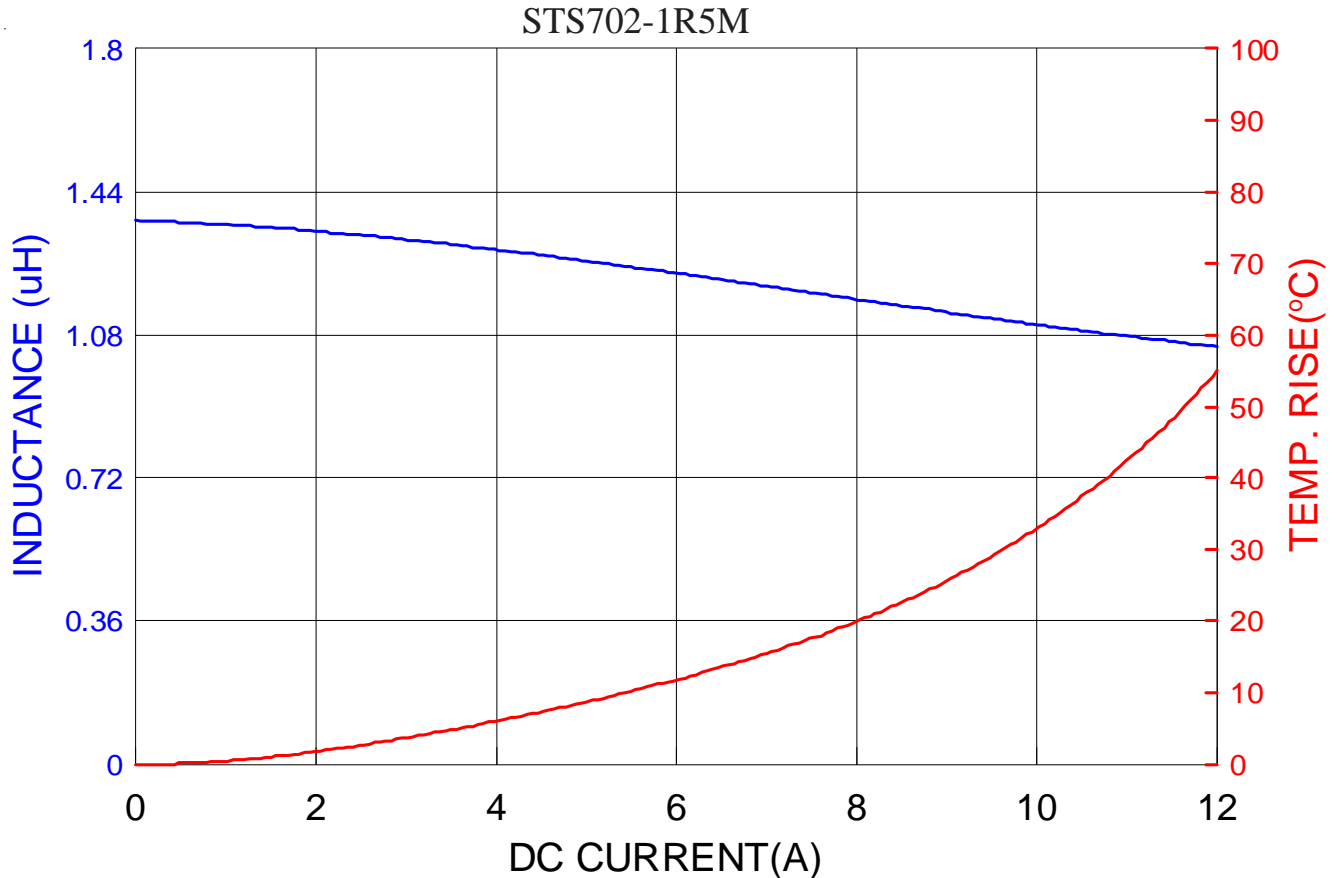
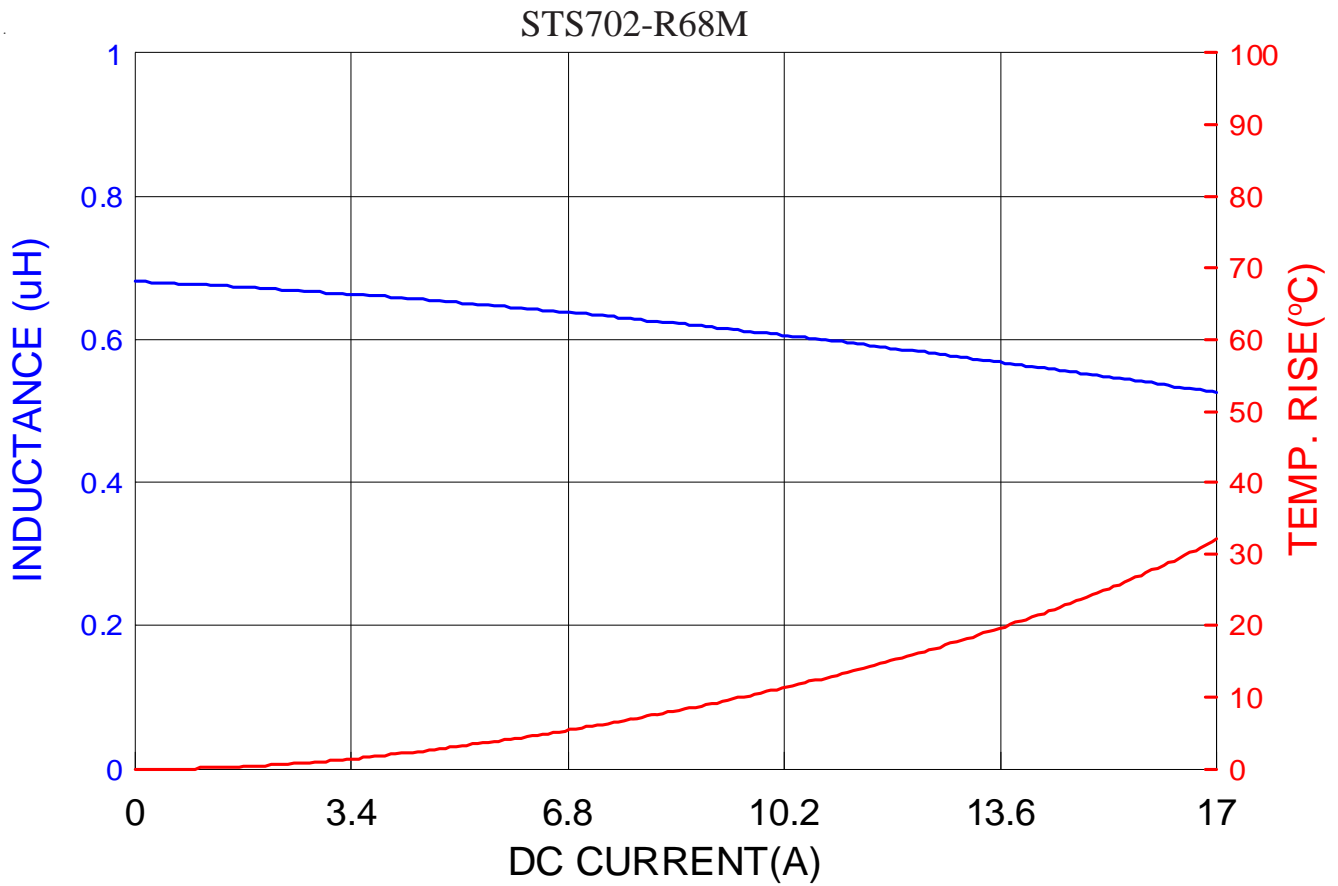


STS702-R47M



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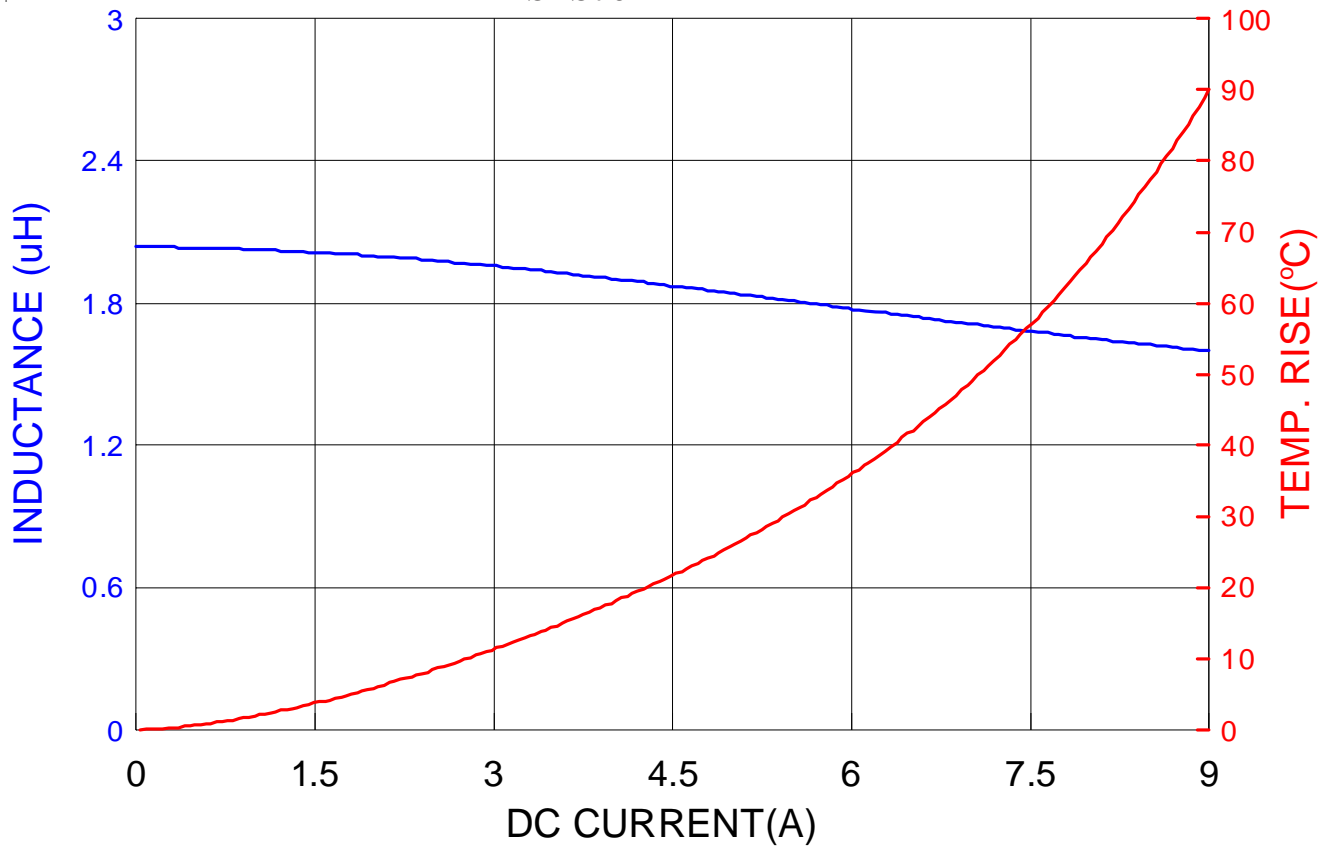
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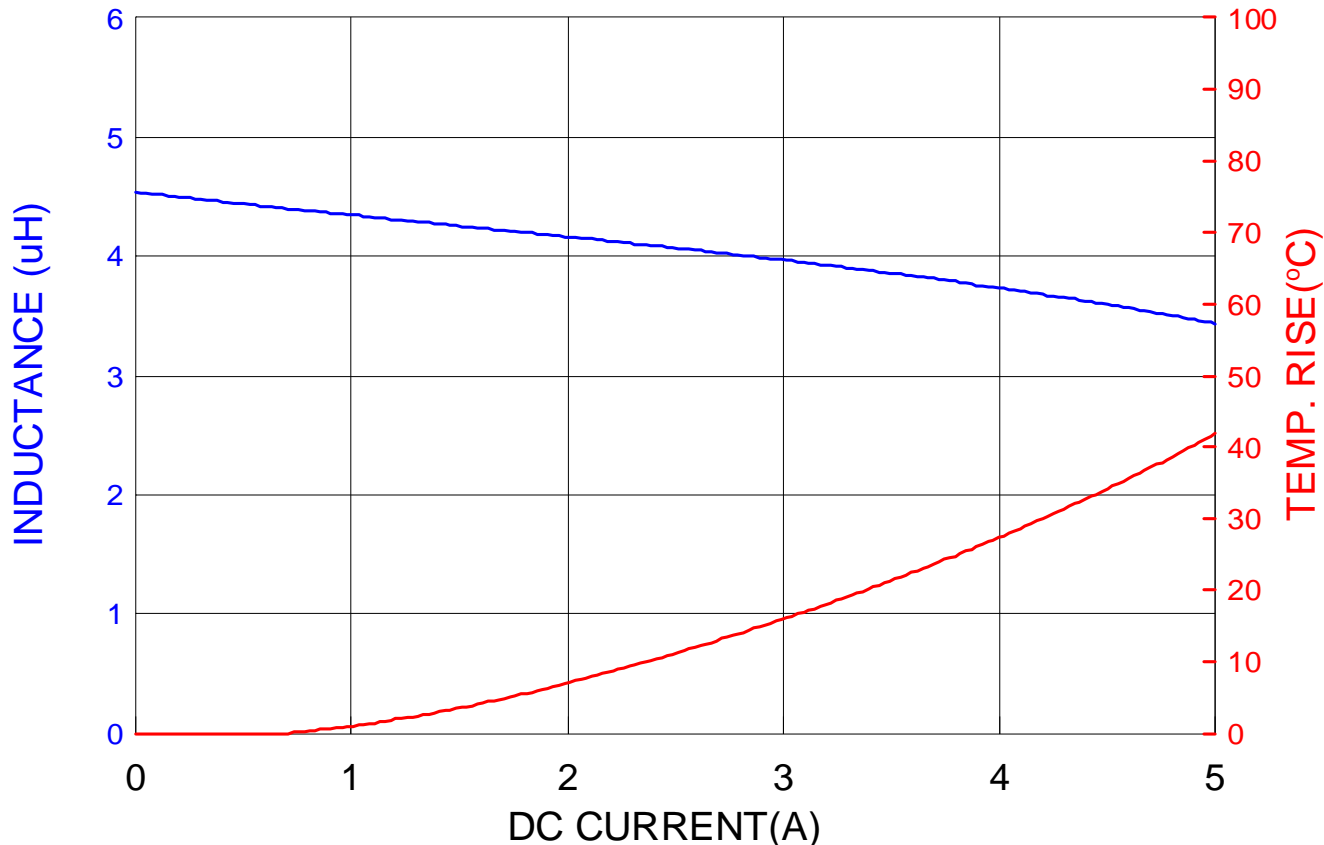
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STS702-2R2M



STS702-4R7M



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