

## New Product

**SURFACE MOUNT  
SHIELDED POWER INDUCTOR  
SERIES STS1437**

### 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 10.0uH
- Test condition        1Vrms @ 100kHz
- Test equipment        Quadtech 1750 LCR Meter

### PHYSICAL SPECIFICATIONS

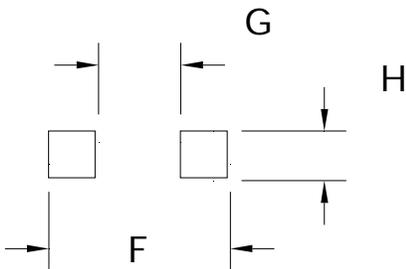
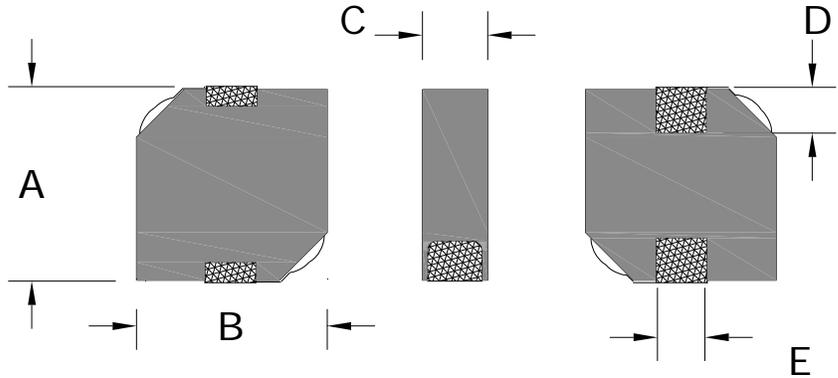
- Operating temp.      -55°C to +125°C
- Shielding             Mixed Material
- Core & base          Mixed Material
- Packaging             T & R    600 pieces per reel
- Tape & reel spec.    Tape    24 mm embossed carrier
- Reel    330 mm reel

### SPECIFICATIONS

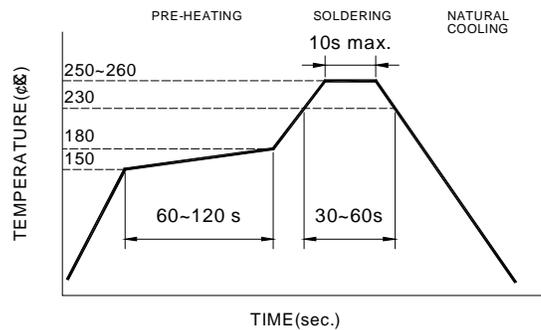
Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)	Saturation Current (A) (Note 2)
STS1437-R47M	0.47	20	0.0020	32	36
STS1437-1R0M	1.0	20	0.0035	24	36
STS1437-1R5M	1.5	20	0.0055	19	28
STS1437-2R2M	2.2	20	0.008	16	16
STS1437-3R3M	3.3	20	0.012	12	13
STS1437-4R7M	4.7	20	0.015	10	10
STS1437-6R8M	6.8	20	0.022	9	9
STS1437-100M	10.0	20	0.034	7	8

### Dimensions in millimeters

- Length A                13.9 max
- Width B                13.5 max
- Height C               3.7 max
- Terminal length D    2.5 ± 0.5
- Terminal width E     3.0 ± 0.5
- Footprint length F    15 ref
- Pad spacing G        7.0 ref
- Pad width H            4.5 ref



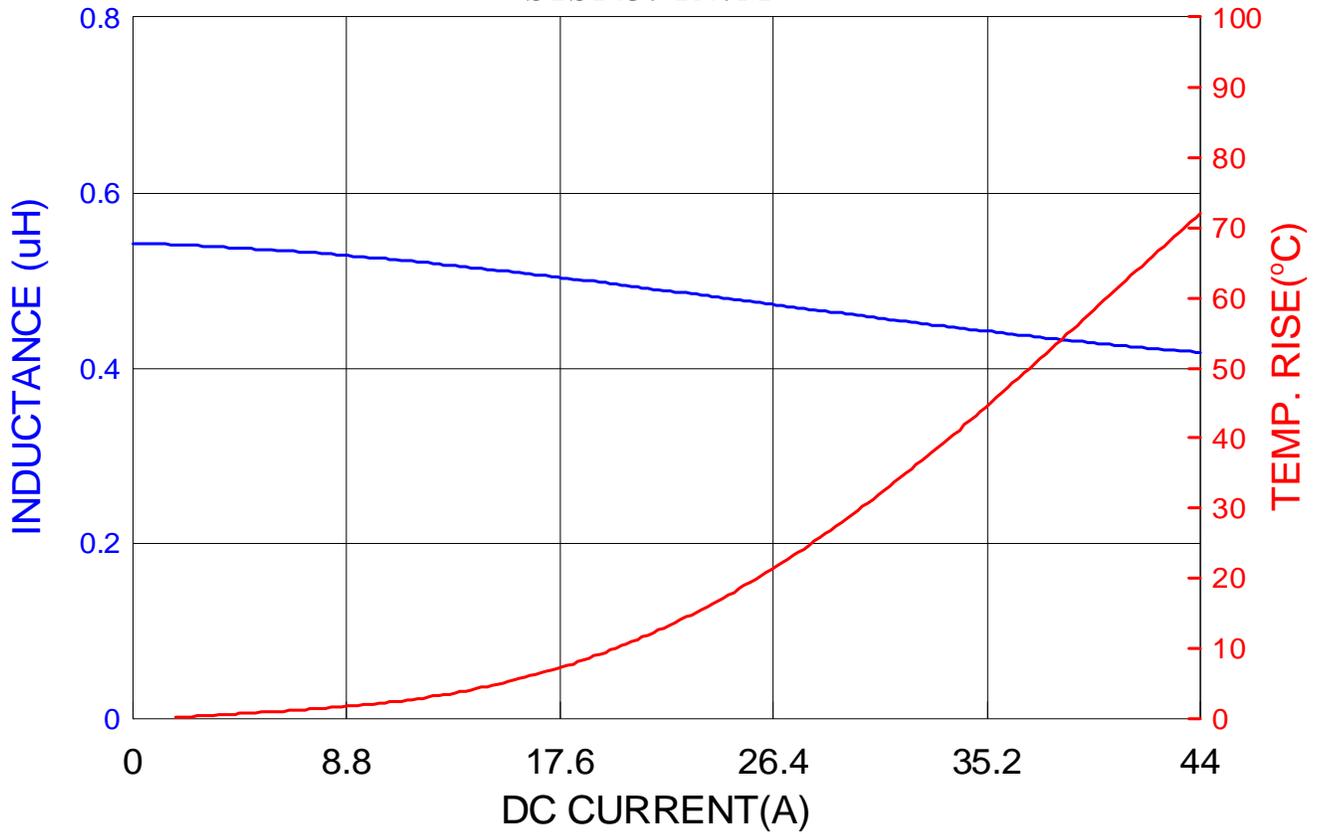
### Suggested Reflow Profile



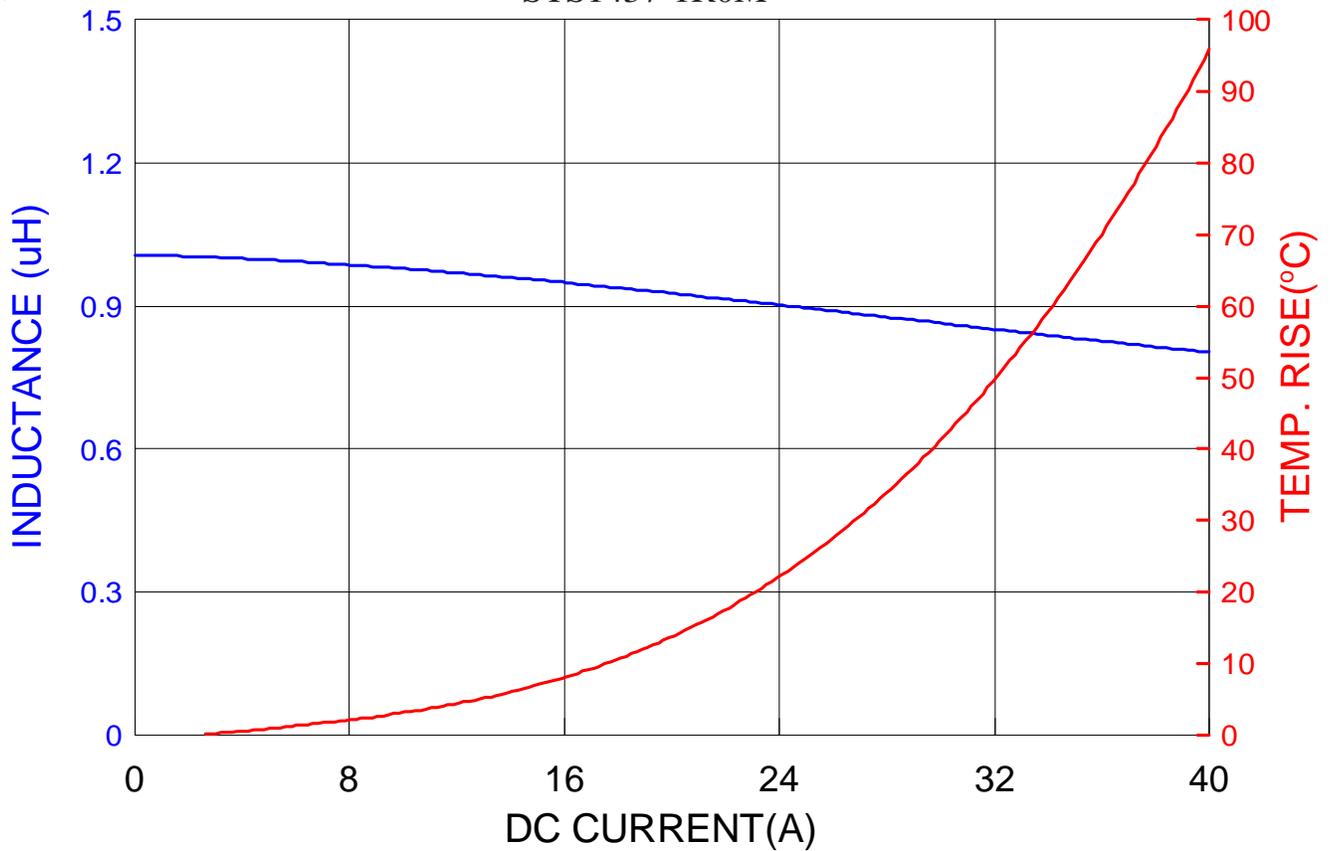
- Notes:
1. Based on ΔT approximately 40°C
  2. L drops 20% typical

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.

STS1437-R47M



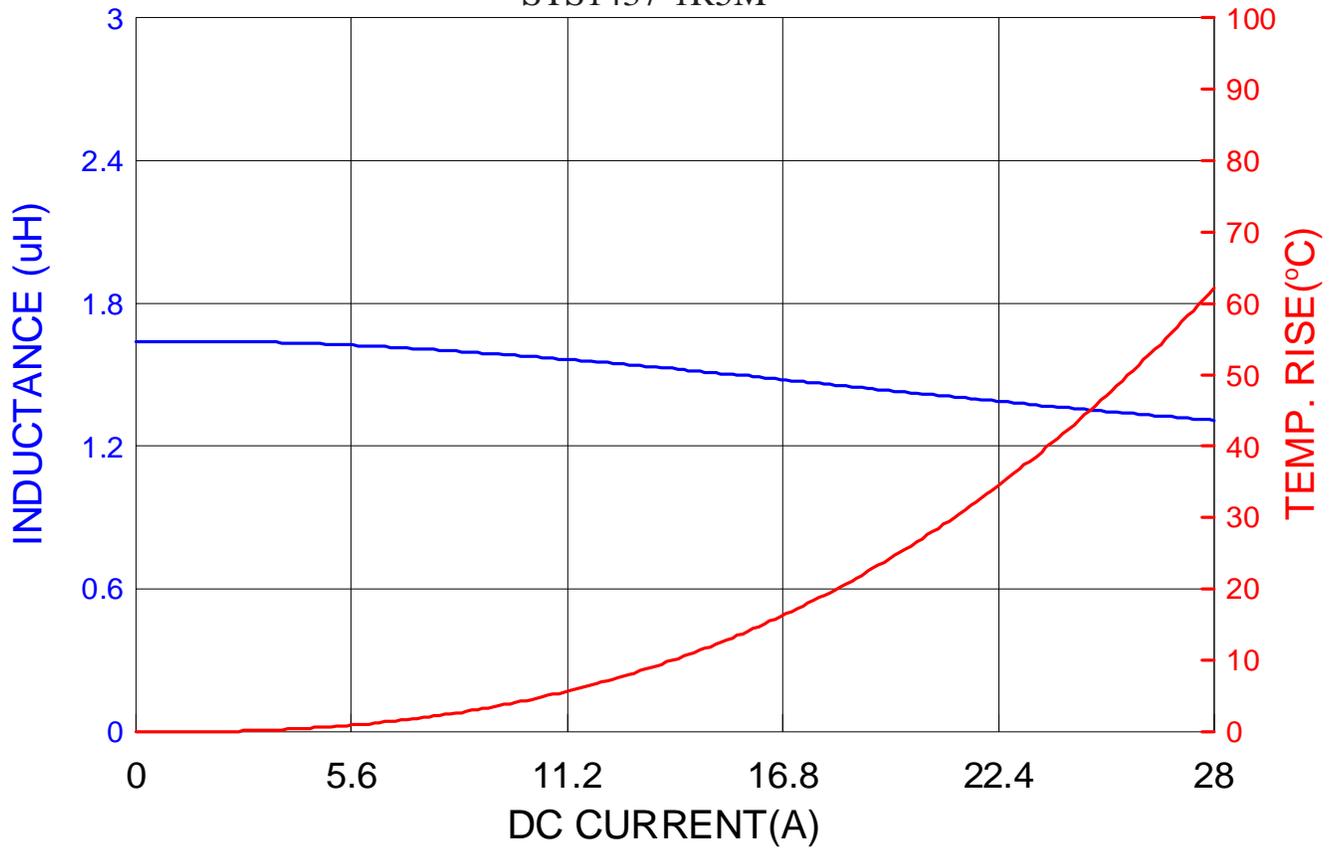
STS1437-1R0M



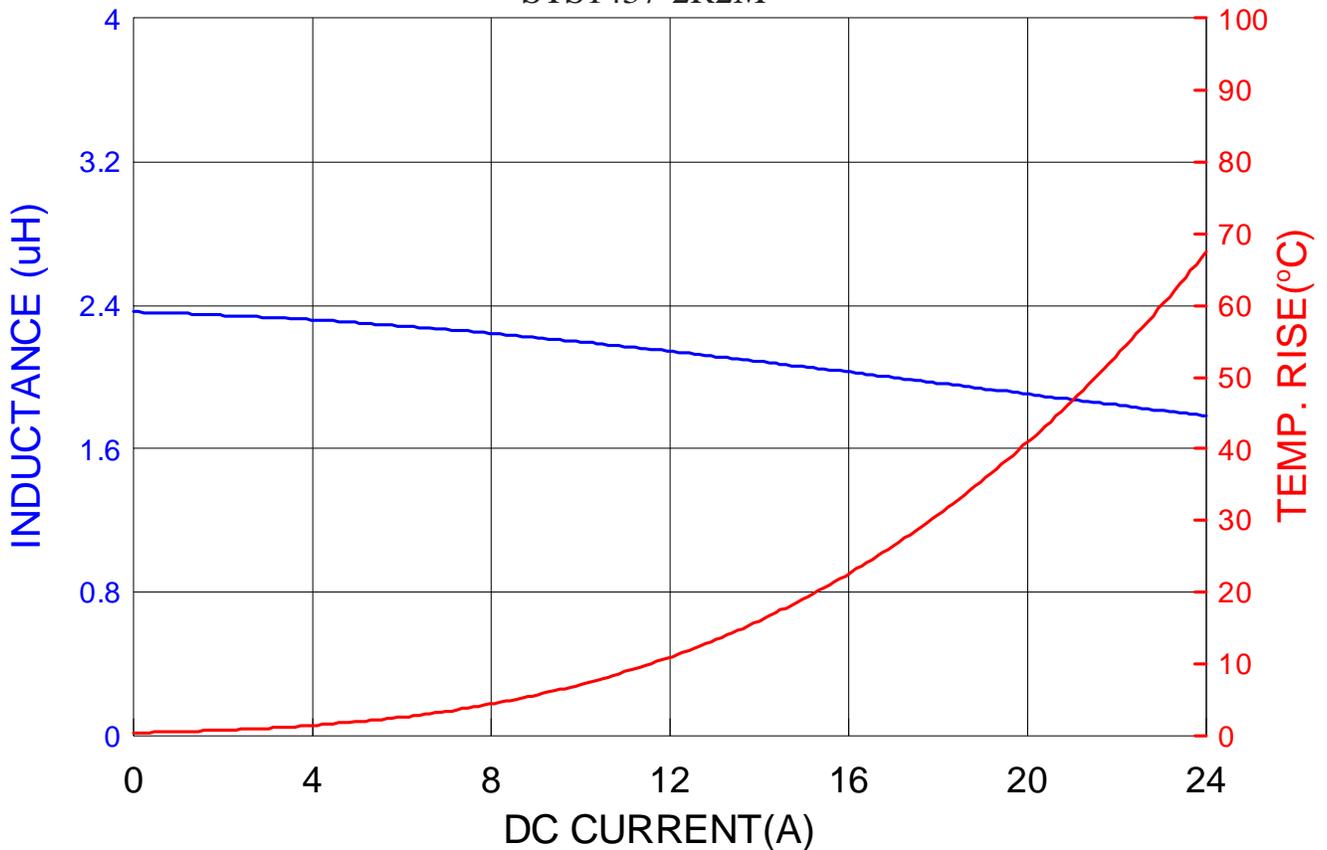
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STS1437-1R5M



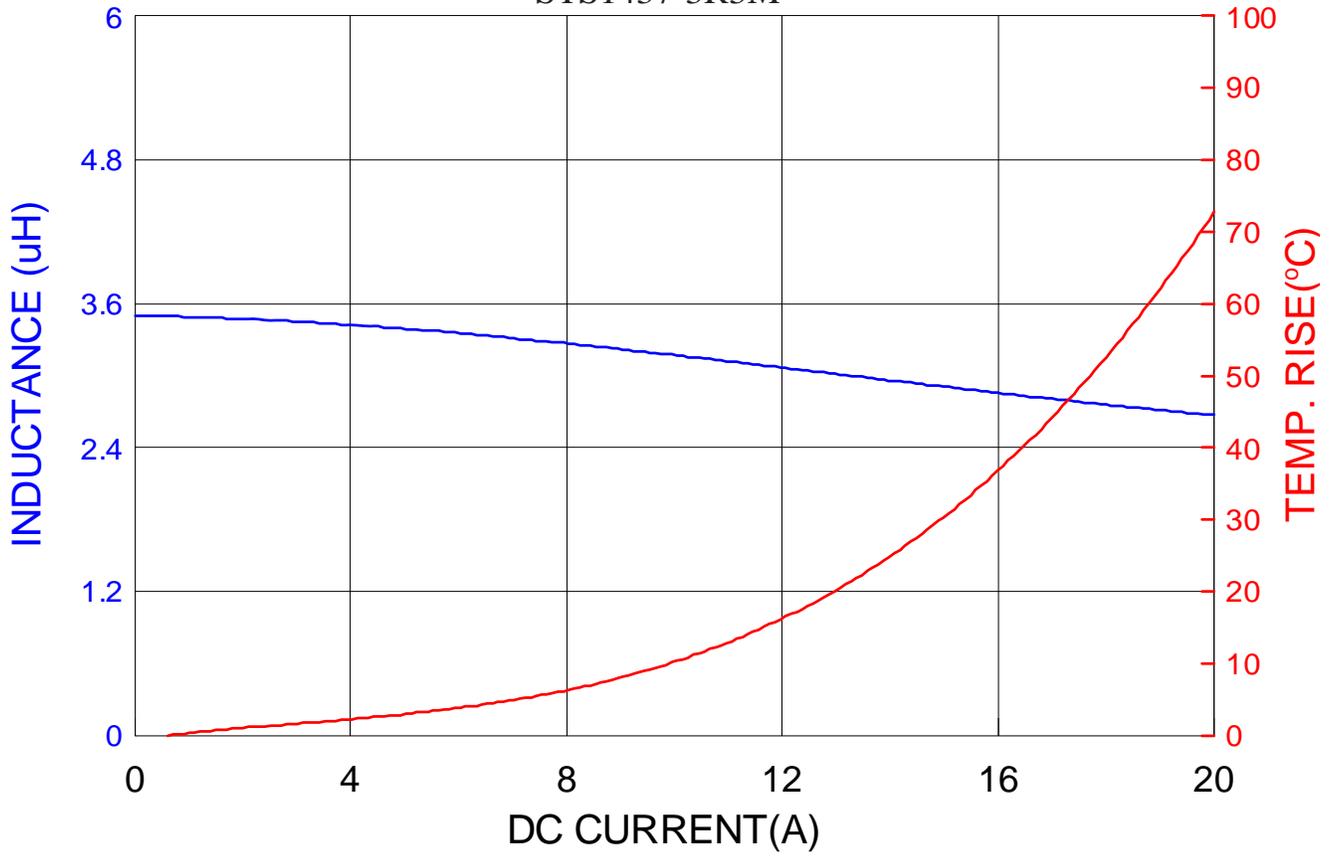
STS1437-2R2M



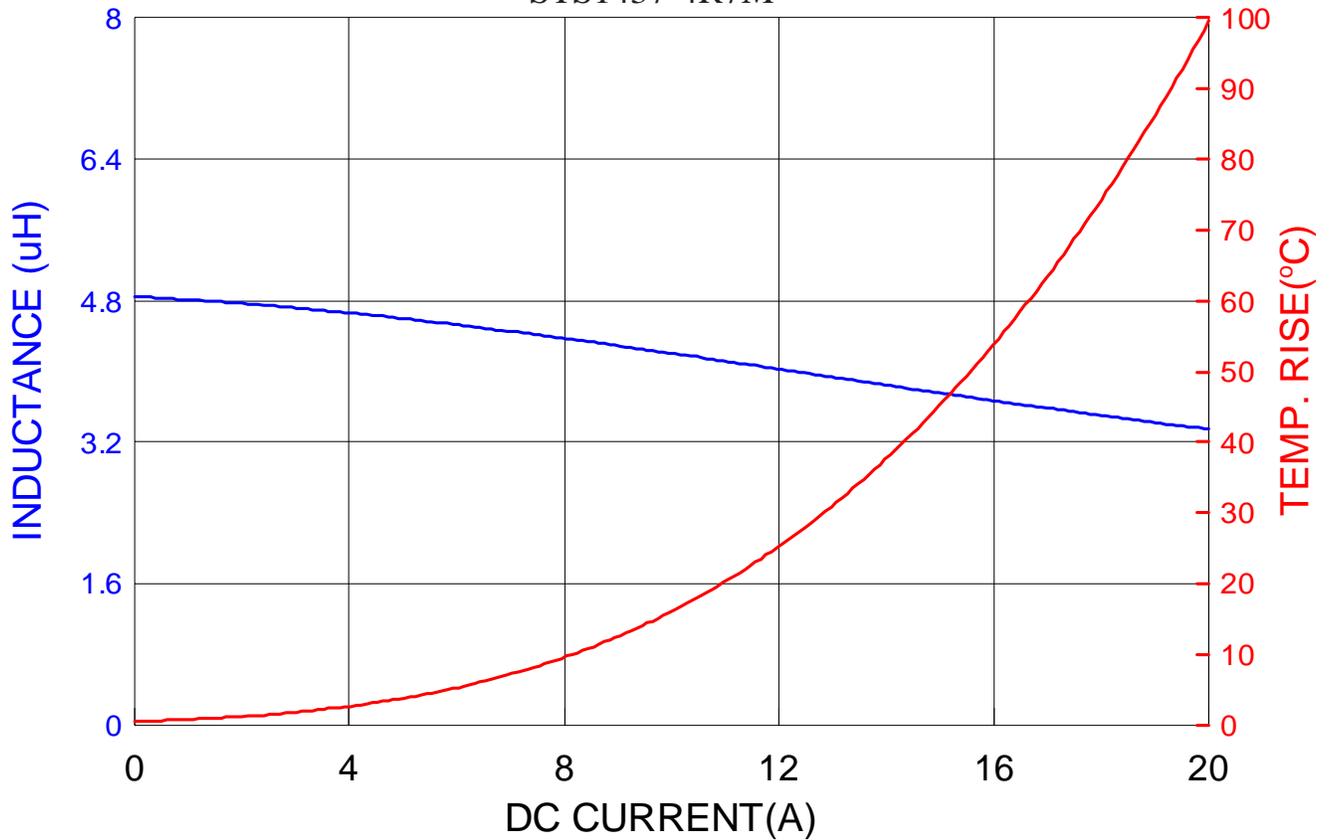
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STS1437-3R3M



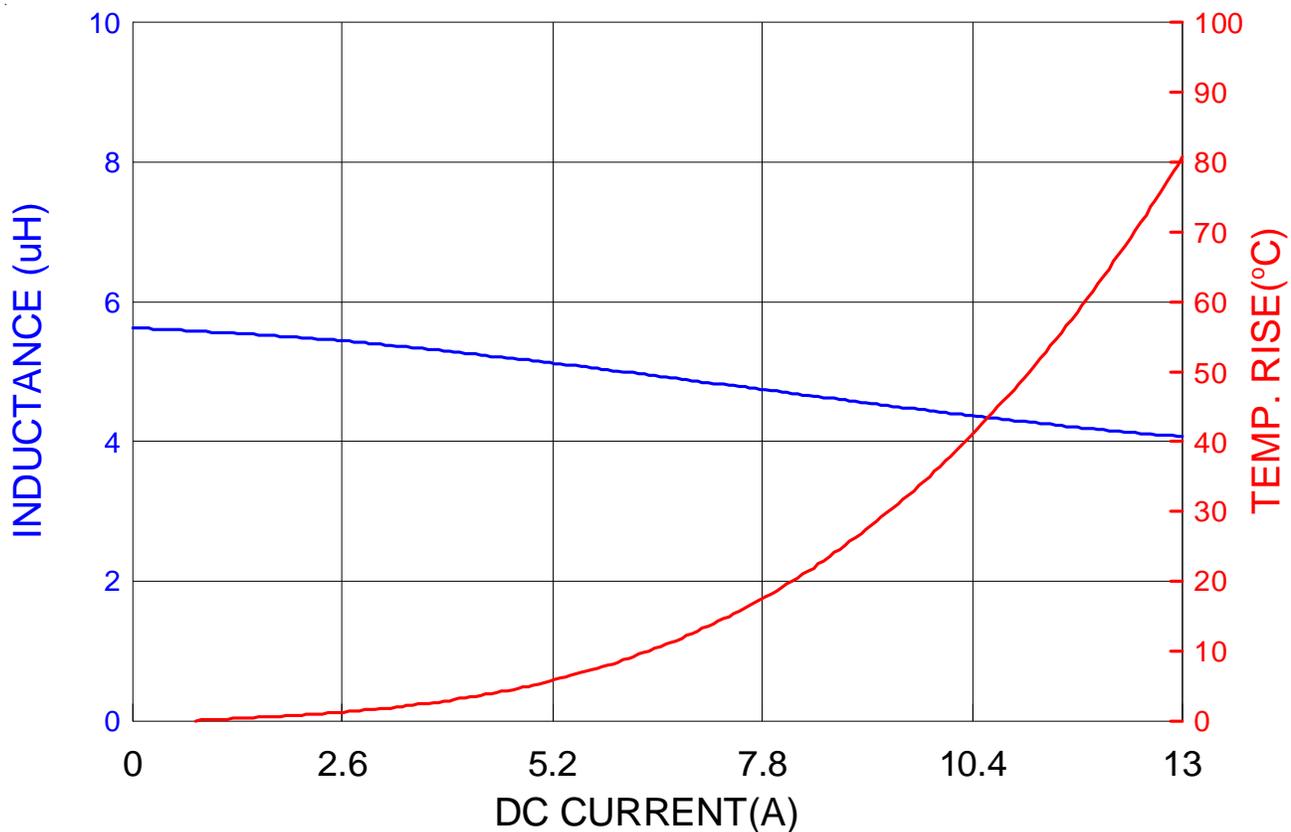
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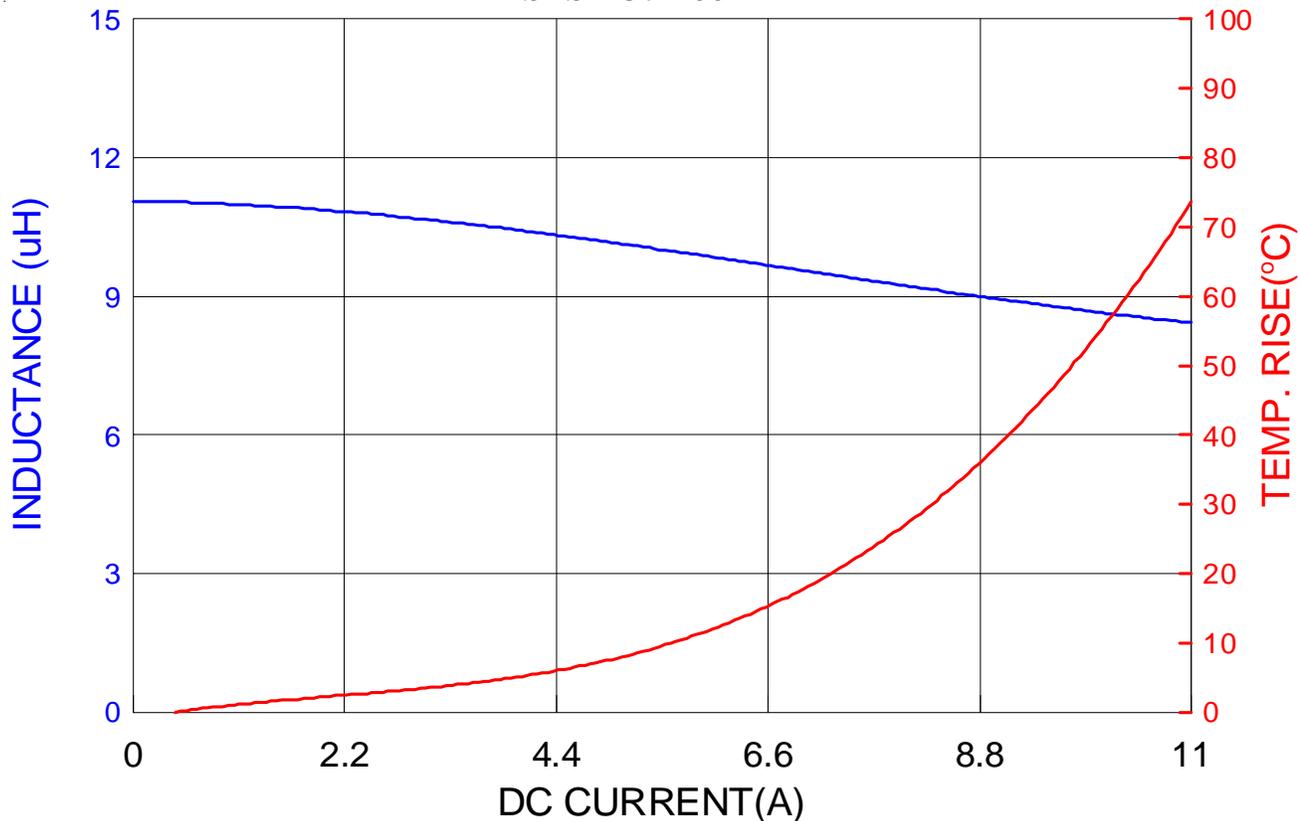
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### STS1437-6R8M



### STS1437-100M



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