

New Product

SURFACE MOUNT SHIELDED POWER INDUCTOR SERIES STS1205

FEATURES

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

ELECTRICAL SPECIFICATIONS

- Inductance range 0.36uH to 2.2uH
- Test condition 1Vrms @ 100kHz
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

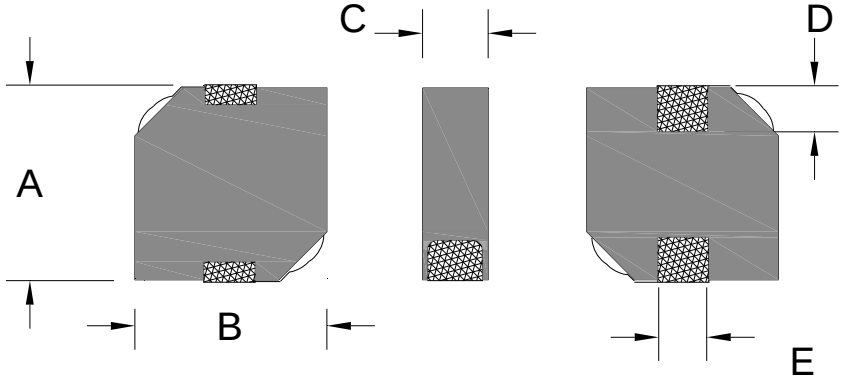
- Operating temp. -55°C to +125°C
- Shielding Mixed Material
- Core & base Mixed Material
- Packaging T & R 800 pieces per reel
- Tape & reel spec. Tape 24 mm embossed carrier
- Reel 330 mm paper reel

SPECIFICATIONS

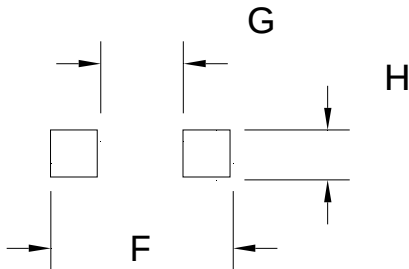
Part Number	L(uH)	Tol % $\pm$	DCR (ohms) max	Rated Current (A) (Note 1)	Saturation Current (A) (Note 2)
STS1205-R36M	0.36	20	0.0009	35	40
STS1205-R47M	0.47	20	0.0010	32	38
STS1205-R56M	0.56	20	0.0012	30	36
STS1205-R68M	0.68	20	0.0015	29.2	32
STS1205-1R0M	1.0	20	0.0025	24	28
STS1205-1R5M	1.5	20	0.0030	20	22
STS1205-2R2M	2.2	20	0.0046	17	20

Dimensions in millimeters

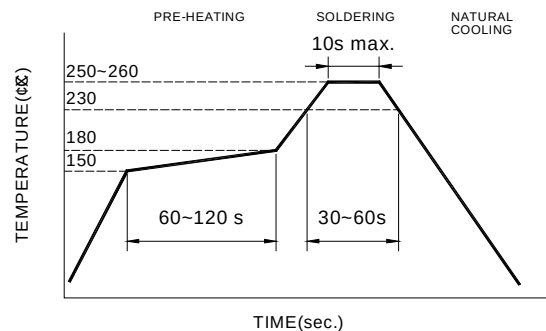
Length A	11.8 max
Width B	10.5 max
Height C	5.0 max
Terminal length D	2.2 $\pm$ 0.5
Terminal width E	2.9 $\pm$ 0.5
Footprint length F	12.4 ref
Pad spacing G	5.4 ref
Pad width H	4.5 ref



Suggested PCB layout



Suggested Reflow Profile



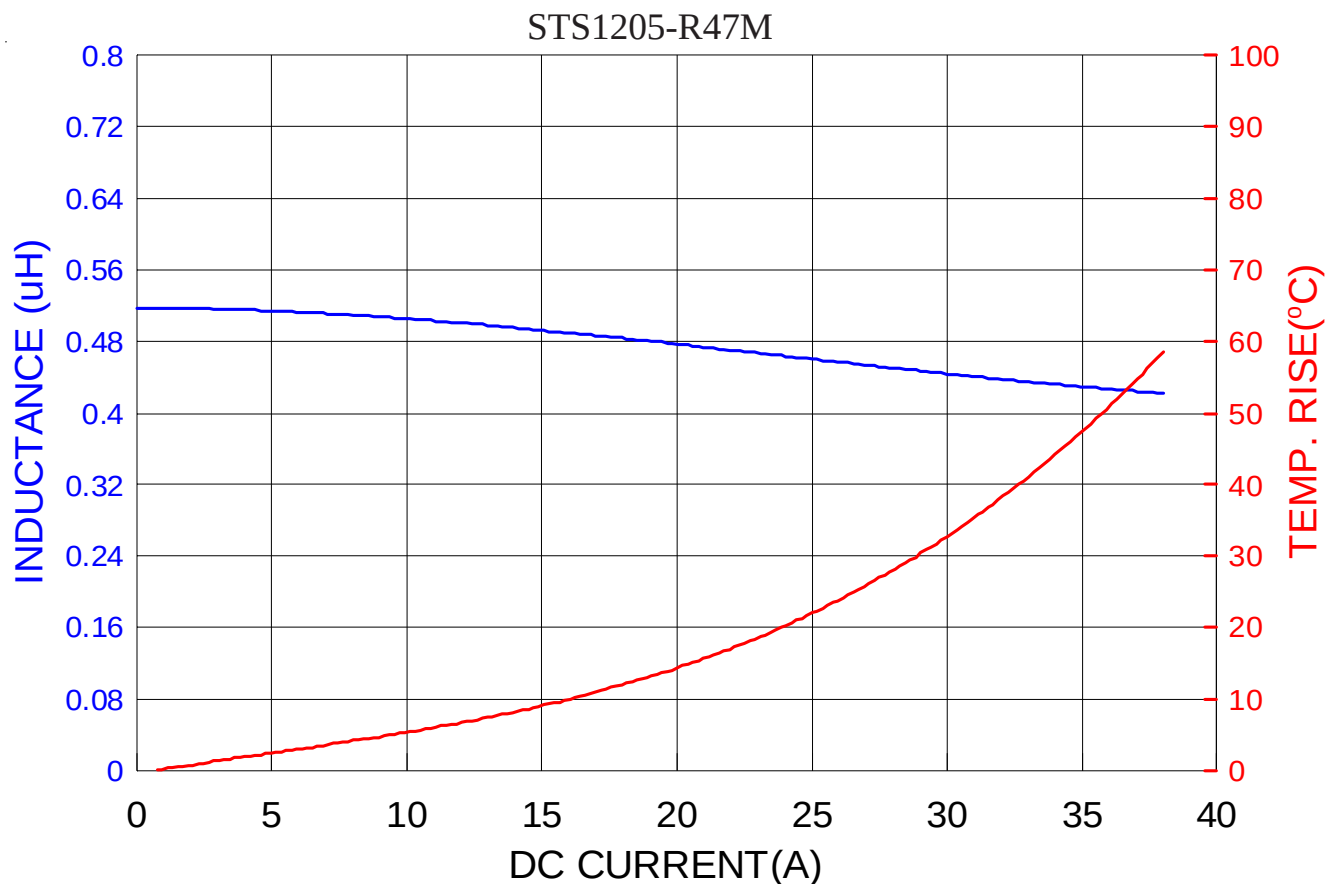
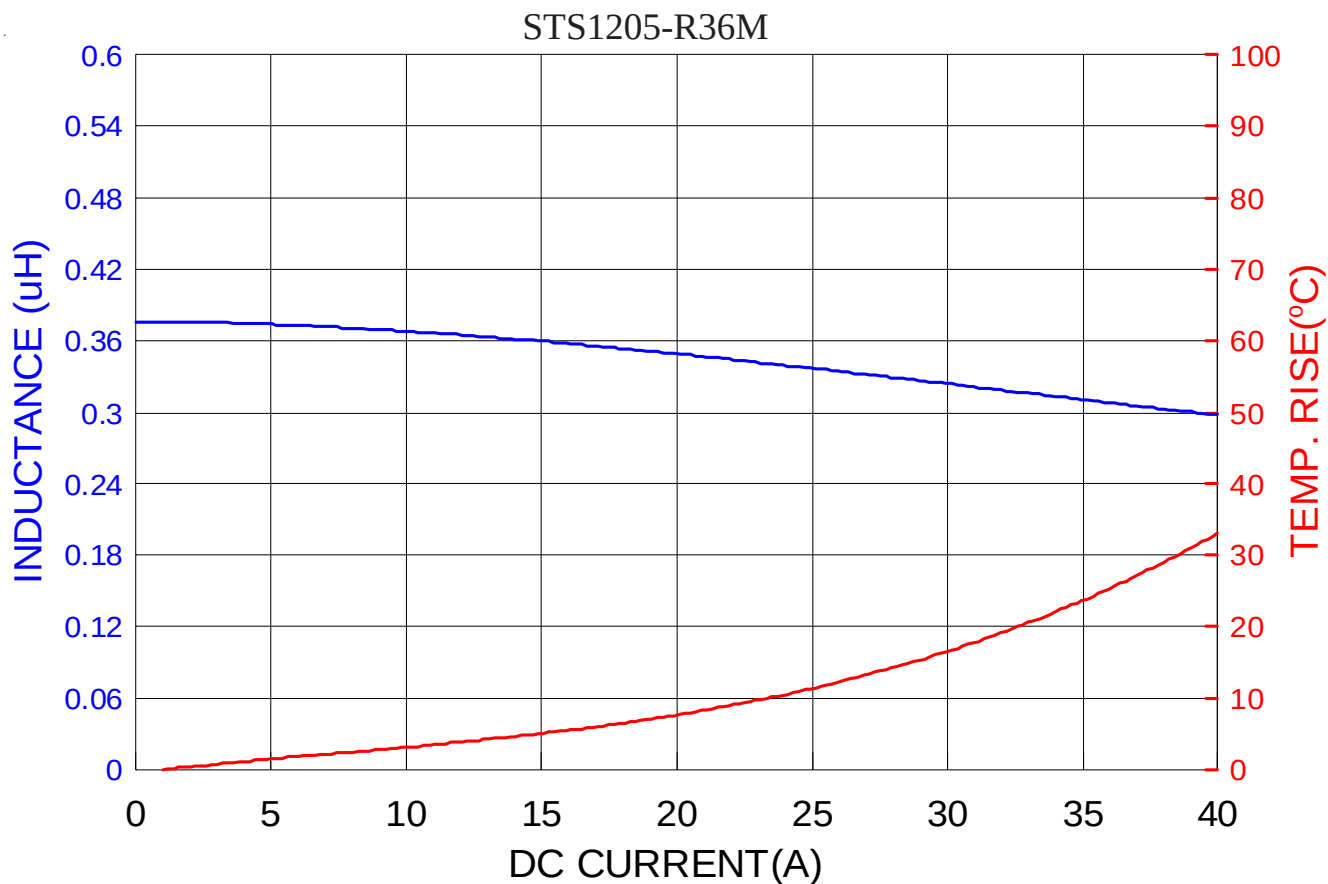
Notes:

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

All test data based on 25°C ambient

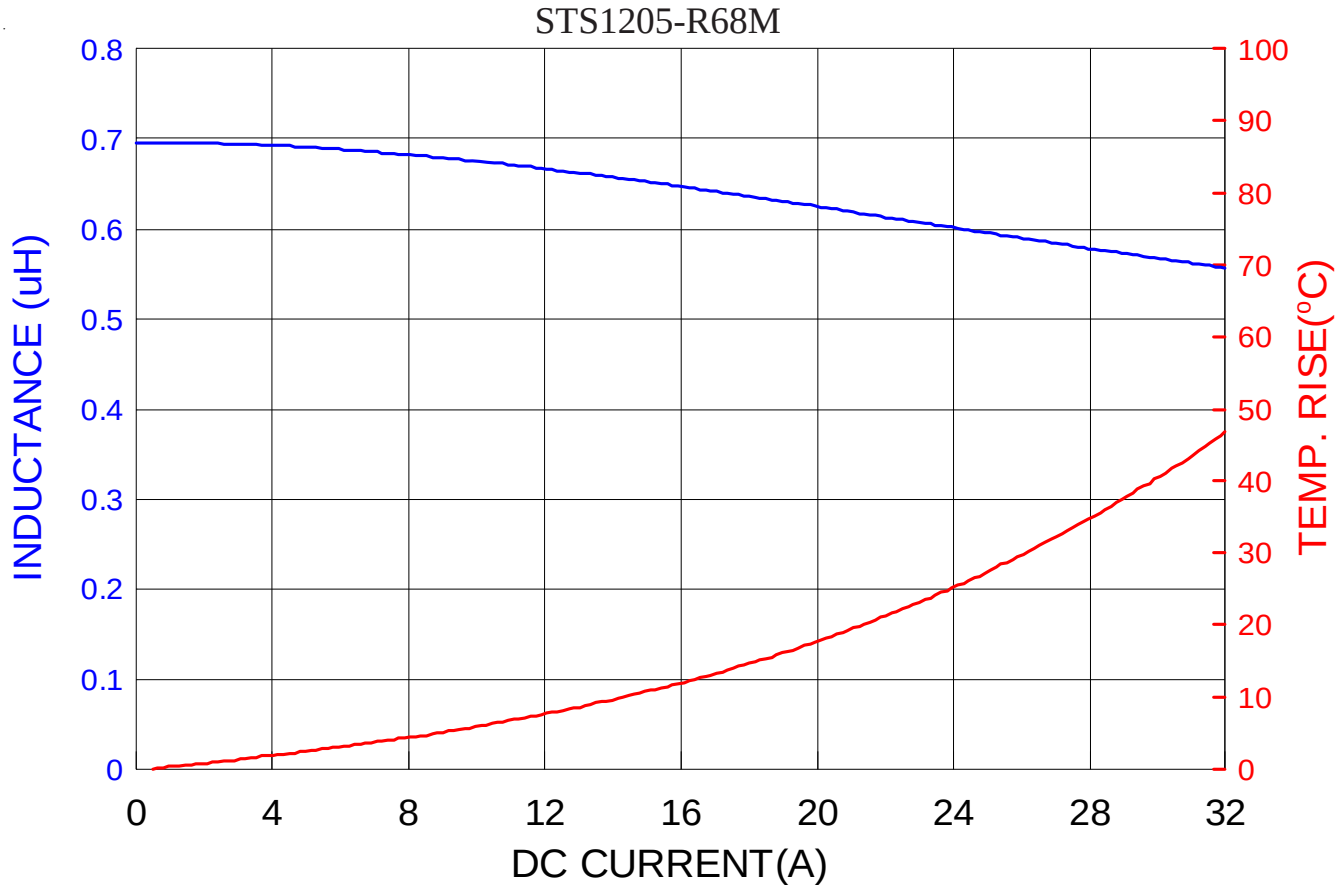
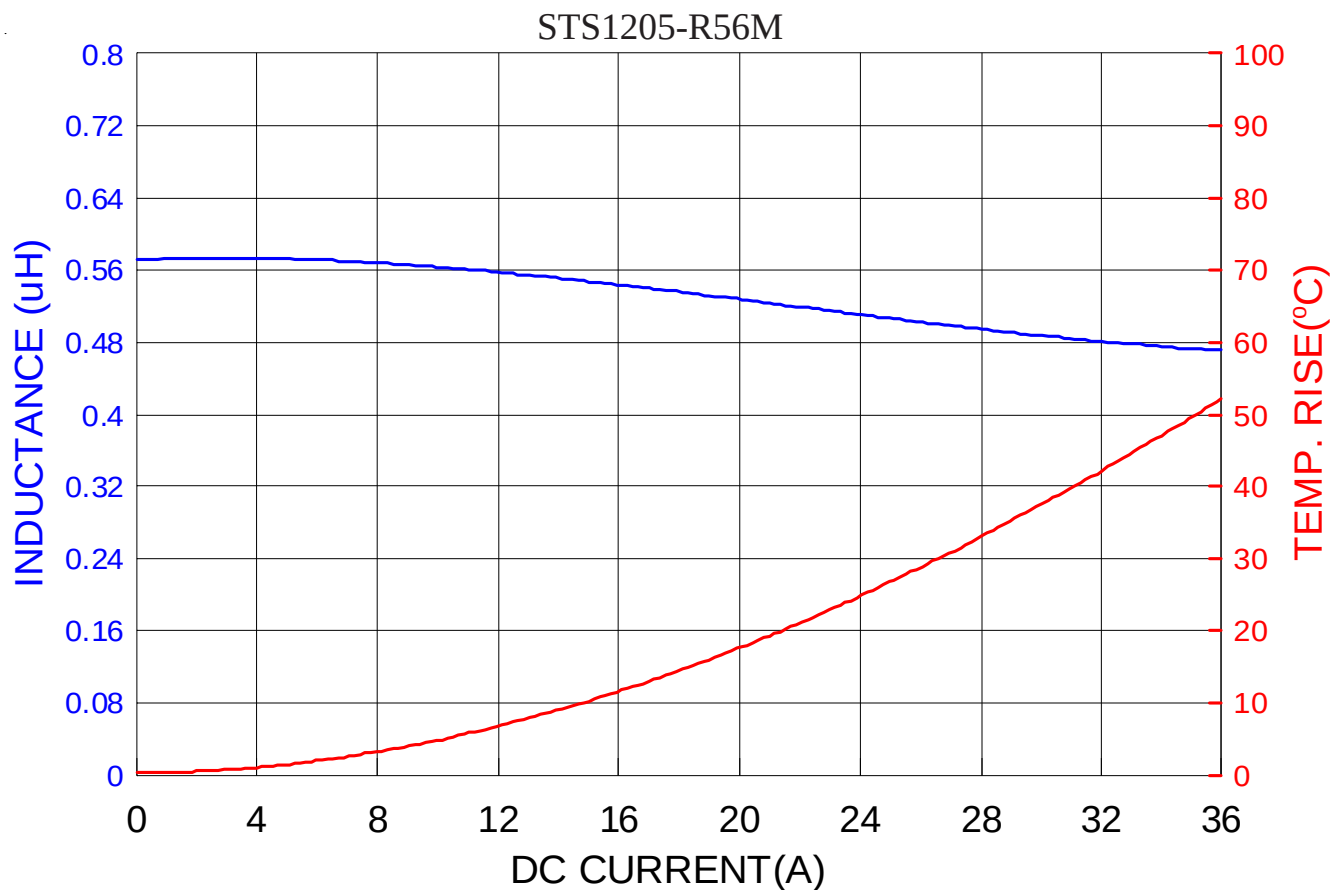
Part temperature (ambient + temp rise) must not exceed 125°C under worst case operating conditions.

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



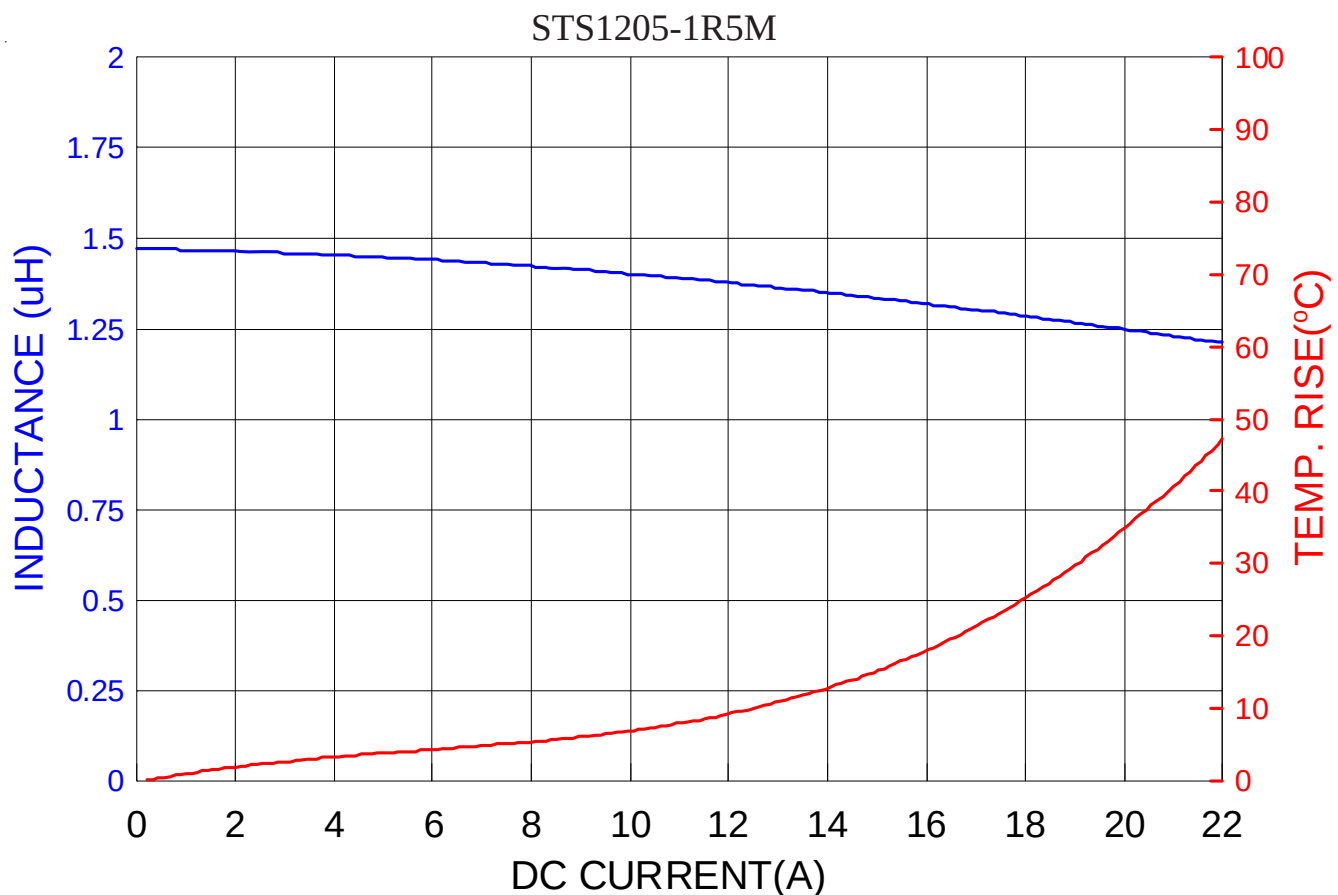
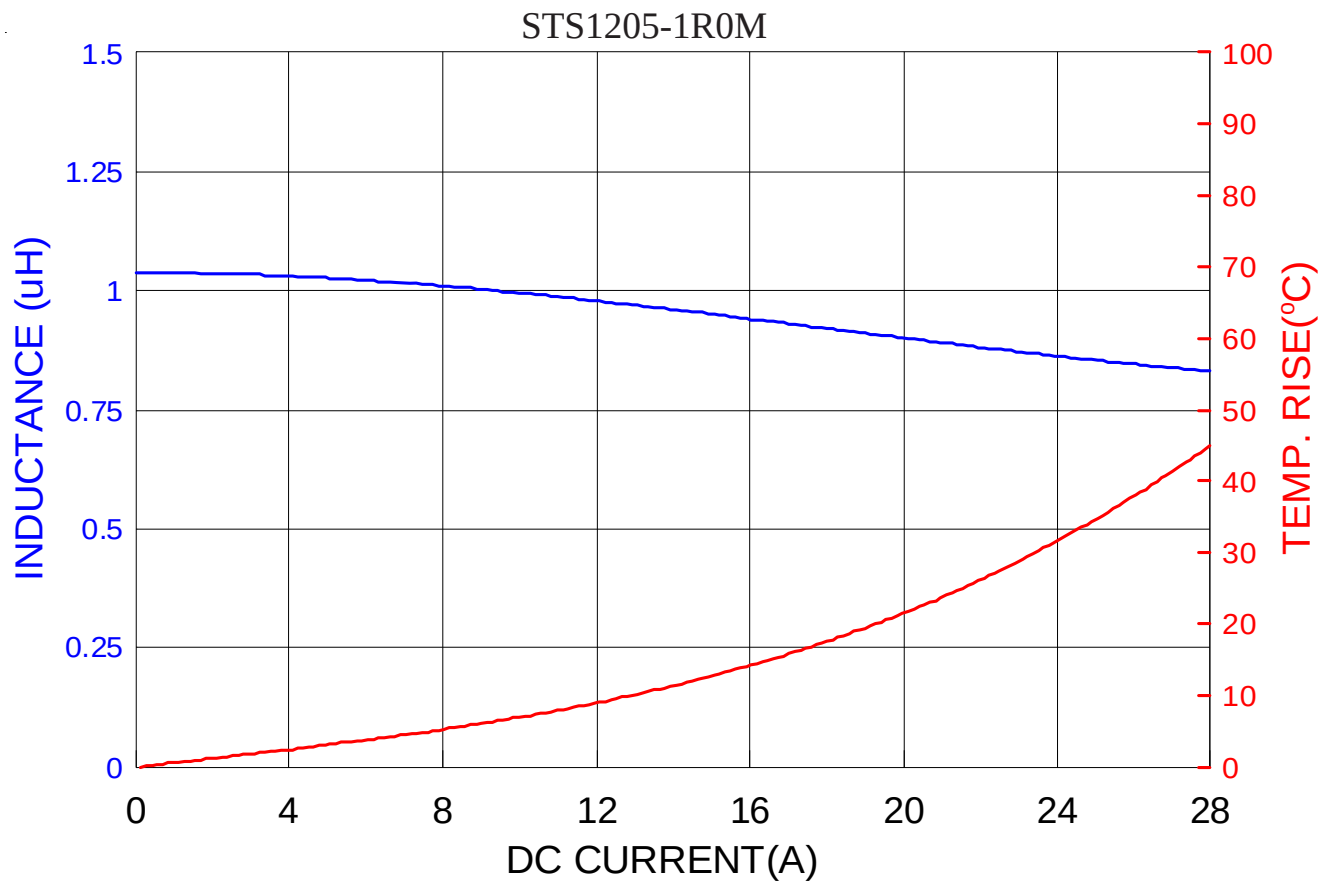
CONFIDENTIAL AND PROPRIETARY INFORMATION
© 2007 Associated Components Technology, Inc. (Unpublished)
All Rights Reserved

This document contains confidential and proprietary information of Associated Components Technology, Inc. and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Associated Components Technology, Inc is strictly forbidden. Date of Disclosure is Mar 20, 2007.



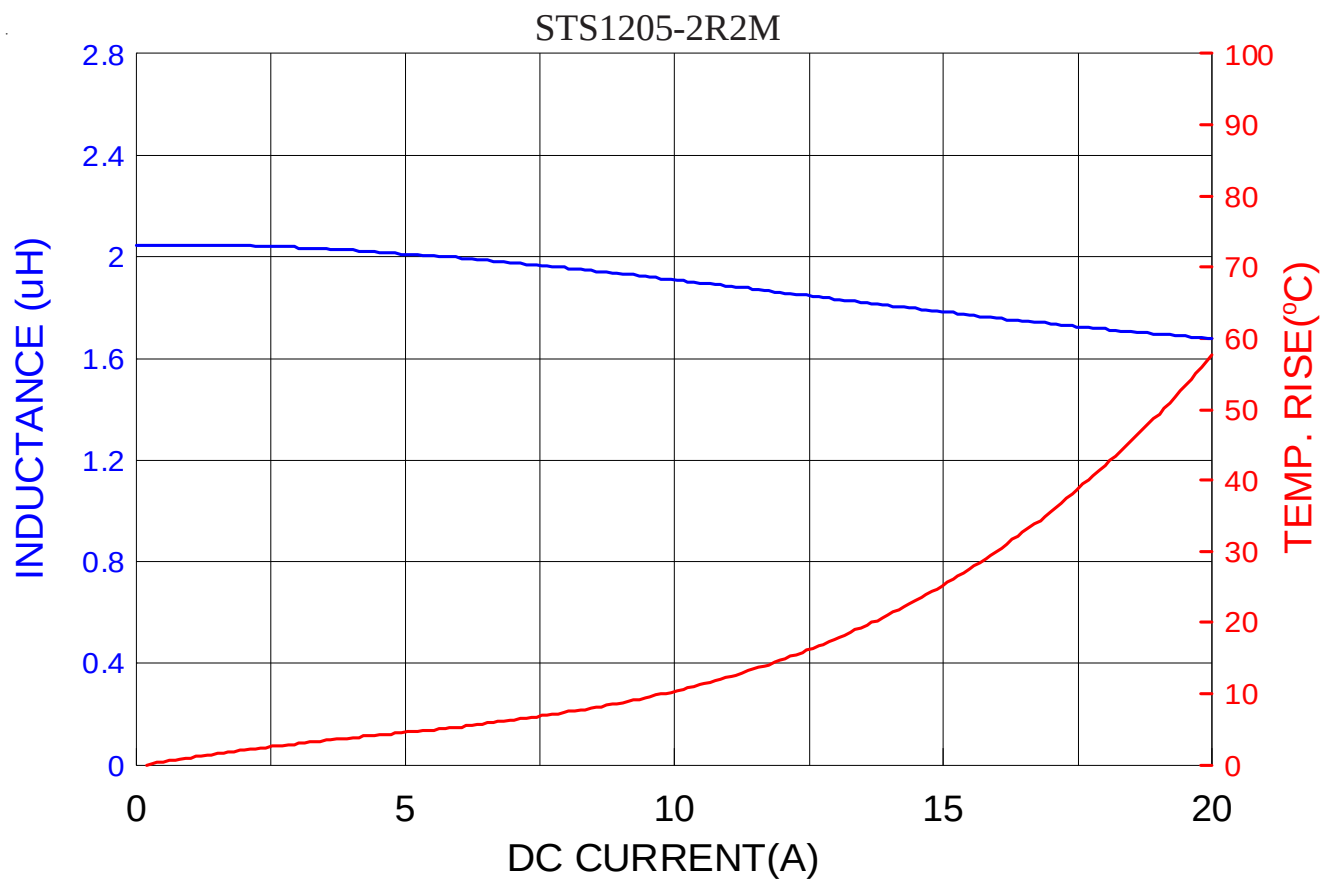
CONFIDENTIAL AND PROPRIETARY INFORMATION
© 2007 Associated Components Technology, Inc. (Unpublished)
All Rights Reserved

This document contains confidential and proprietary information of Associated Components Technology, Inc. and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Associated Components Technology, Inc is strictly forbidden. Date of Disclosure is Mar 20, 2007.



CONFIDENTIAL AND PROPRIETARY INFORMATION
© 2007 Associated Components Technology, Inc. (Unpublished)
All Rights Reserved

This document contains confidential and proprietary information of Associated Components Technology, Inc. and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Associated Components Technology, Inc. is strictly forbidden. Date of Disclosure is Mar 20, 2007.



CONFIDENTIAL AND PROPRIETARY INFORMATION
© 2007 Associated Components Technology, Inc. (Unpublished)
All Rights Reserved

This document contains confidential and proprietary information of Associated Components Technology, Inc. and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Associated Components Technology, Inc is strictly forbidden. Date of Disclosure is Mar 20, 2007.