

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

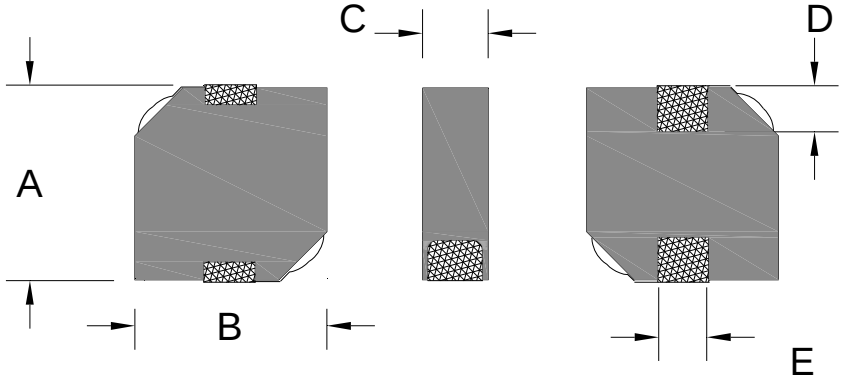
- Operating temp. -55°C to +125°C
- Shielding Mixed Material
- Core & base Mixed Material
- Packaging T & R 800 pieces per reel
- Tape & reel spec. Tape 24 mm embossed carrier
- Reel 330 mm paper reel

SPECIFICATIONS

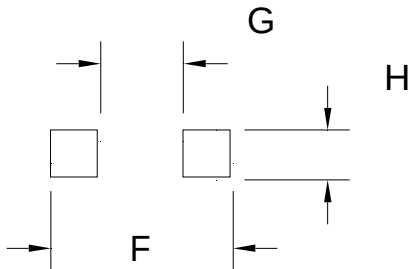
Part Number	L(uH)	Tol % $\pm$	DCR (ohms) max	Rated Current (A) (Note 1)	Saturation Current (A) (Note 2)
STS1205-R36M	0.36	20	0.0009	35	40
STS1205-R47M	0.47	20	0.0010	32	38
STS1205-R56M	0.56	20	0.0012	30	36
STS1205-R68M	0.68	20	0.0015	29.2	32
STS1205-1R0M	1.0	20	0.0025	24	28
STS1205-1R5M	1.5	20	0.0030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



Notes:

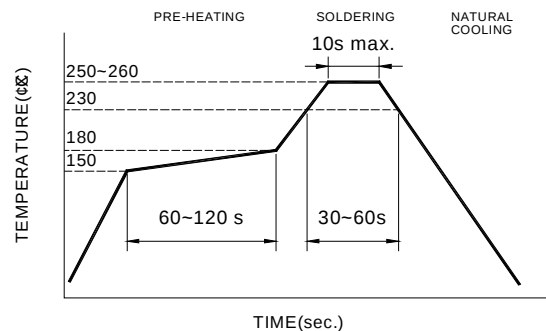
1. Based on ΔT approximately 40°C
2. L drops 20% typical

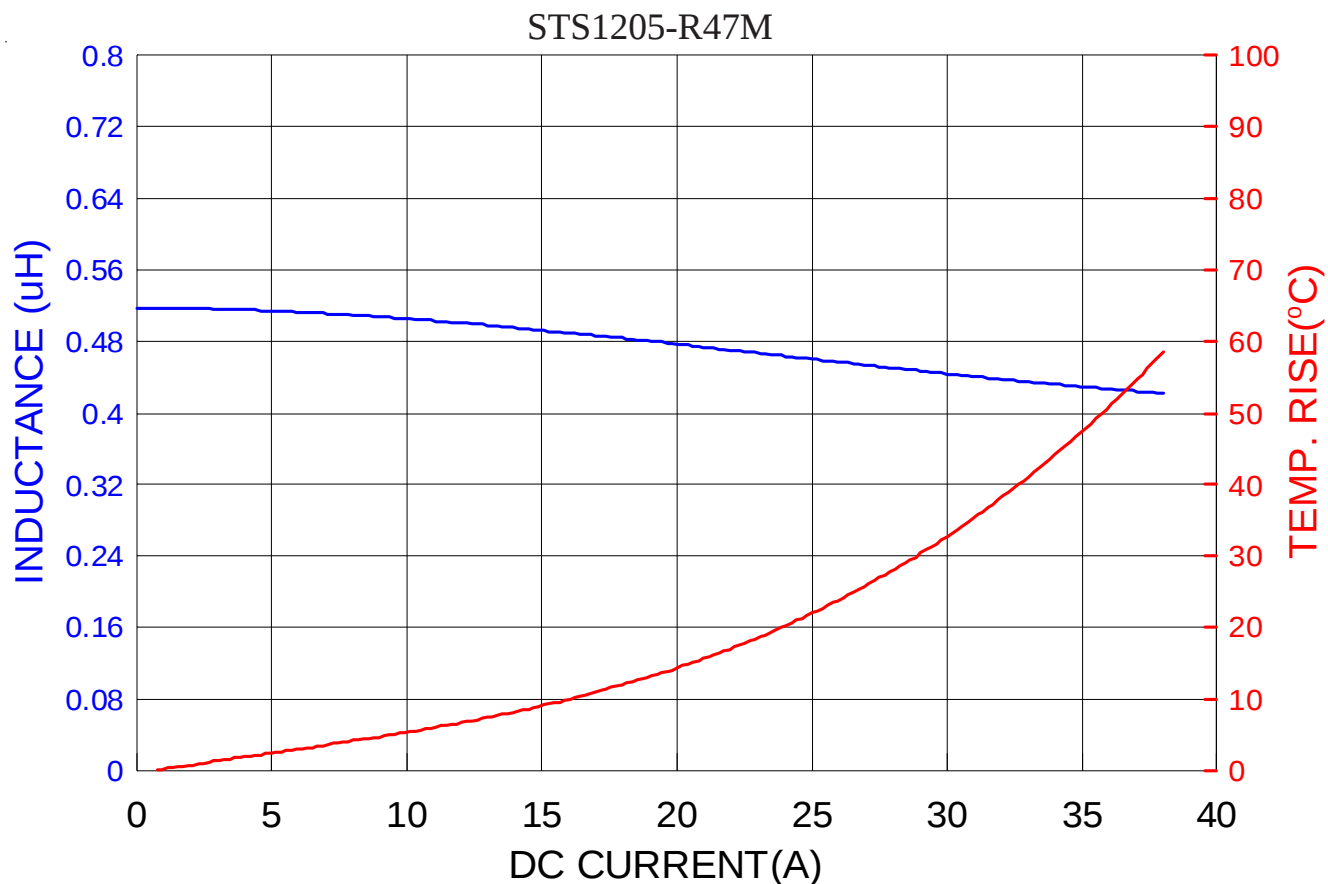
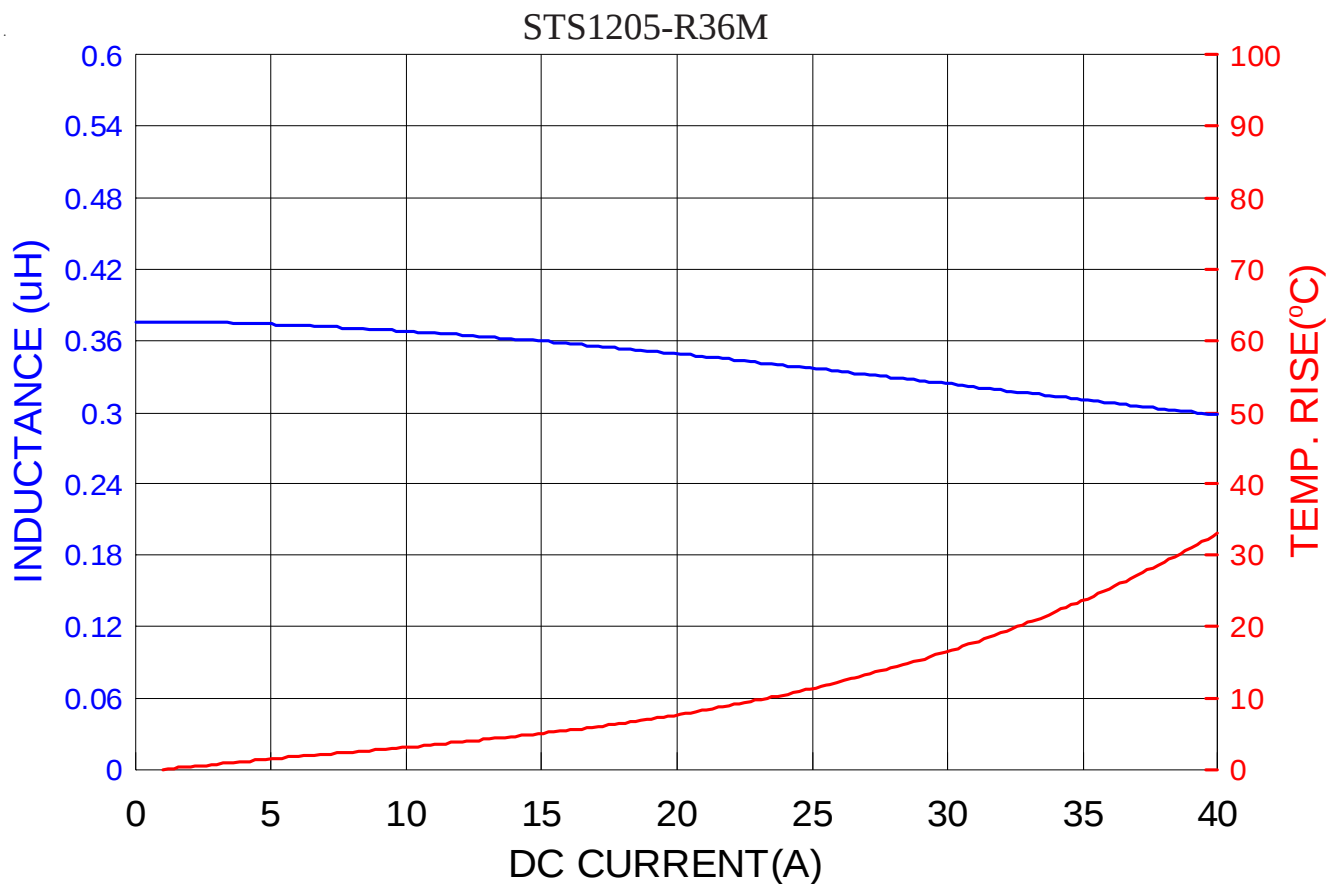
All test data based on 25°C ambient

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.

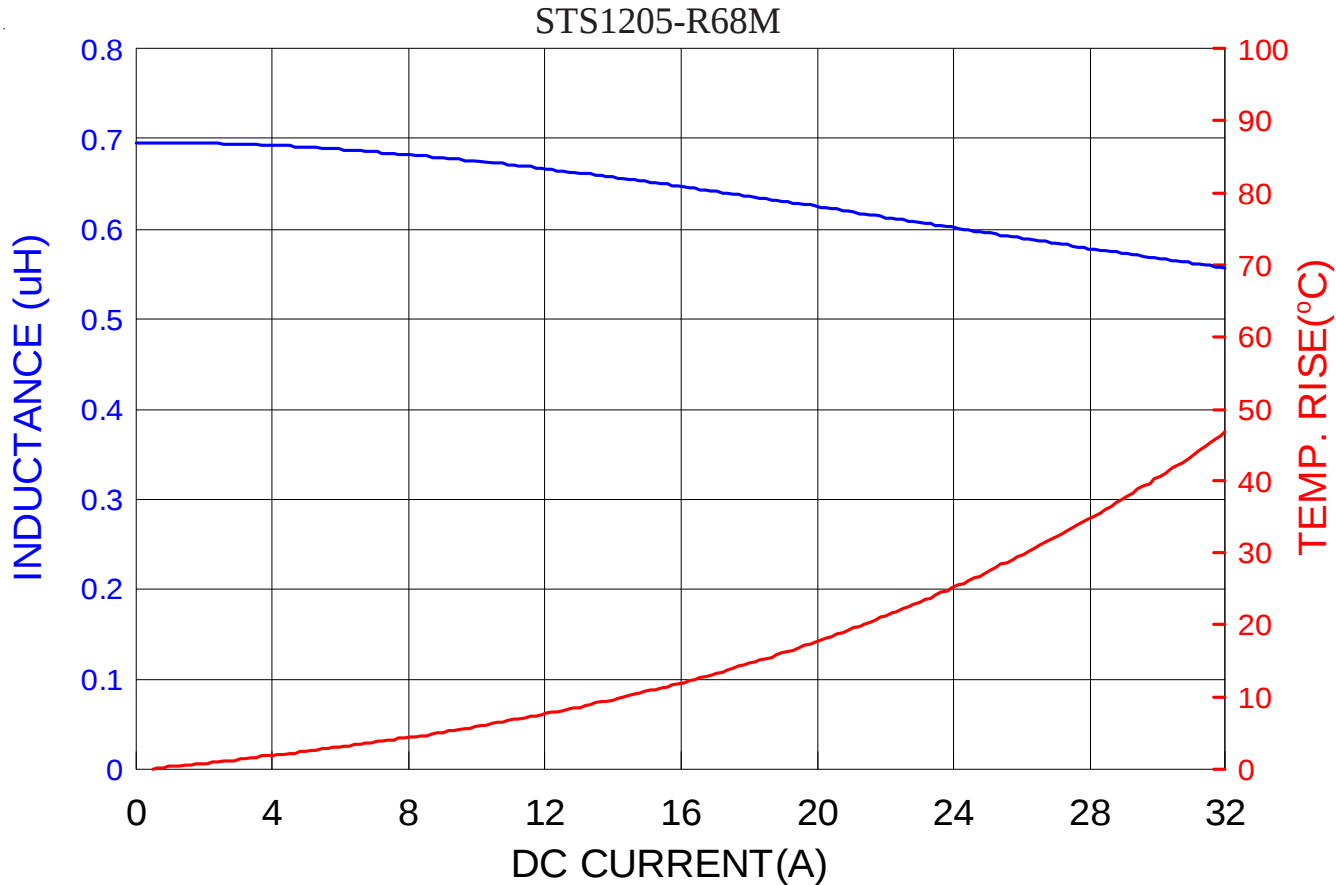
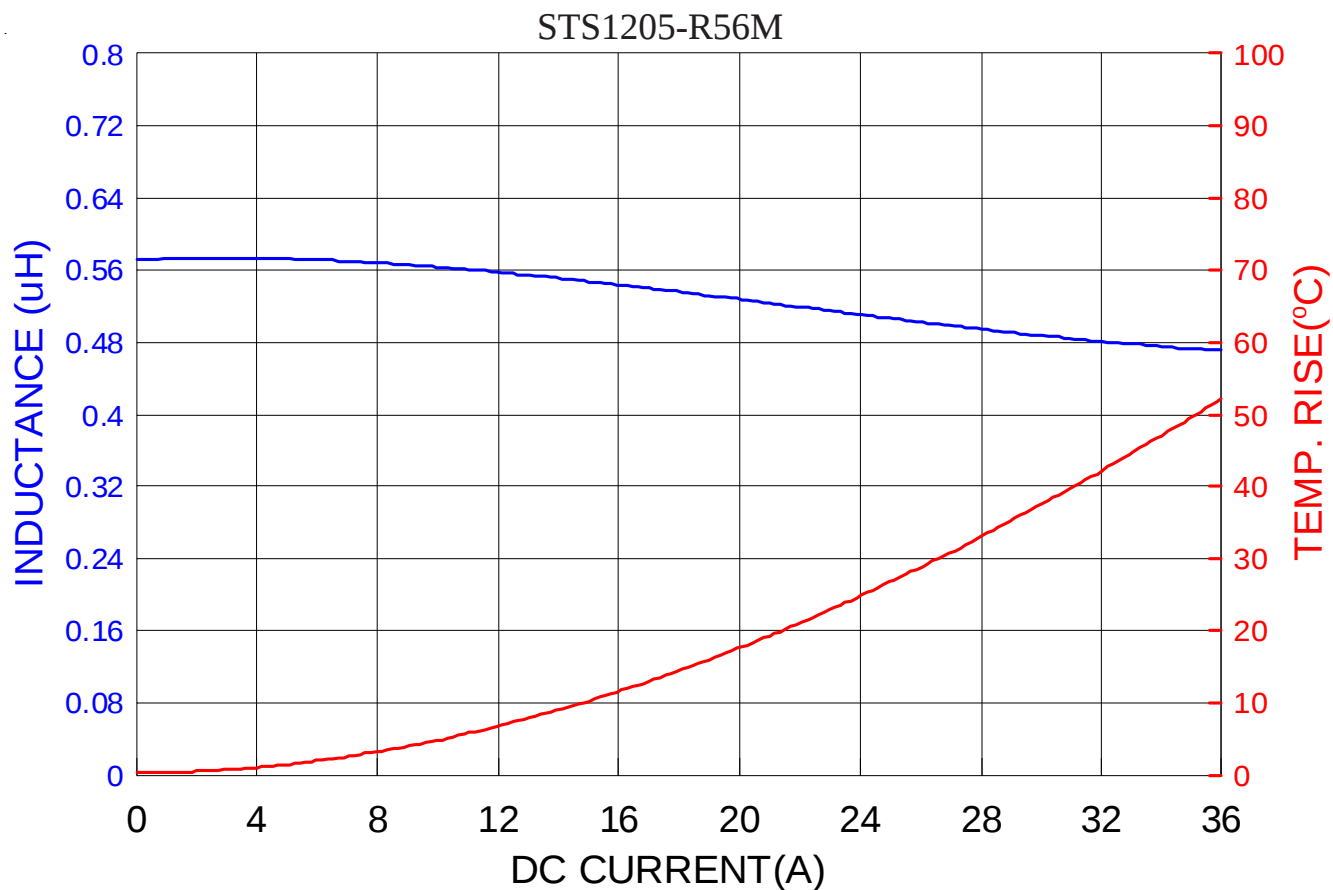
Suggested Reflow Profile





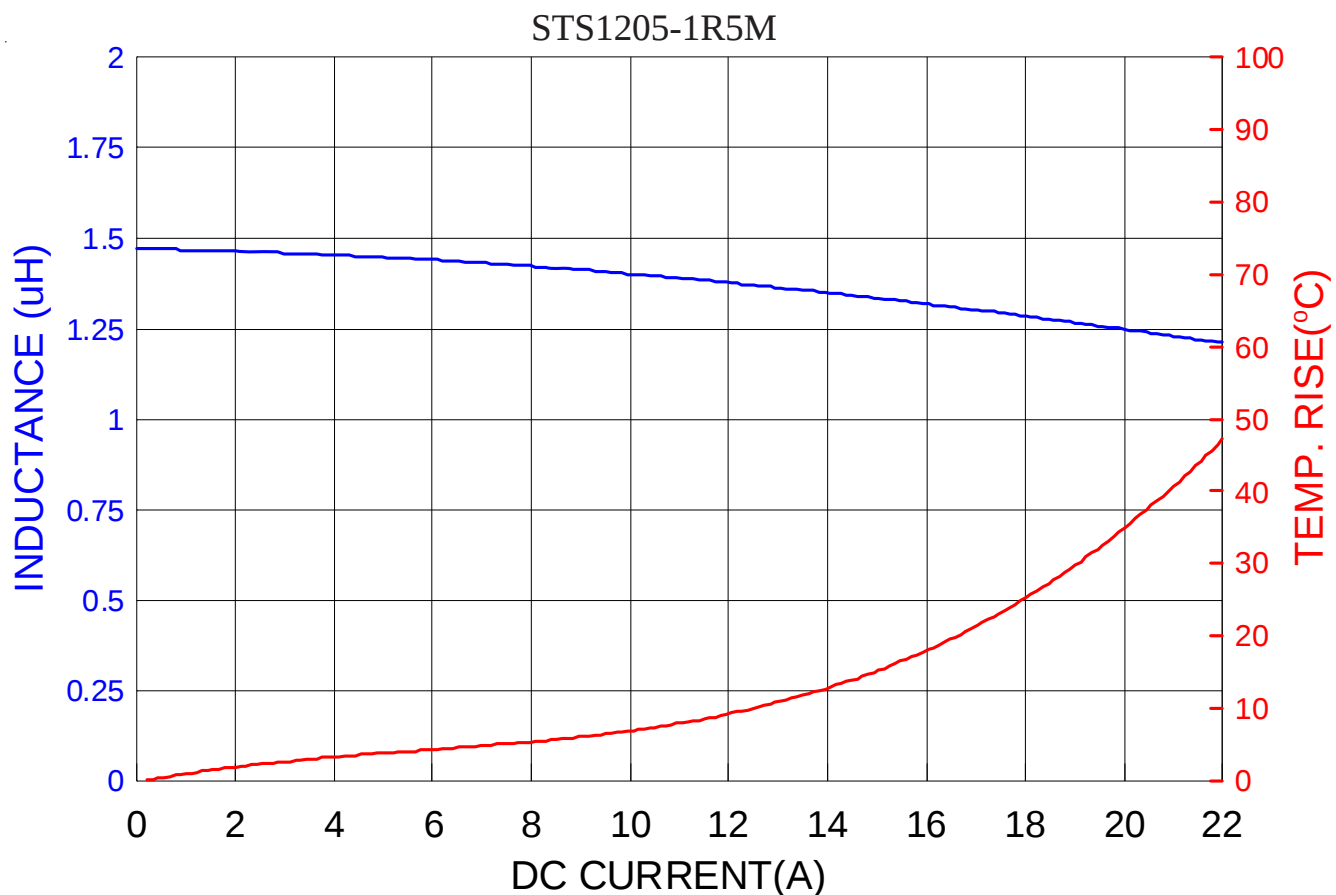
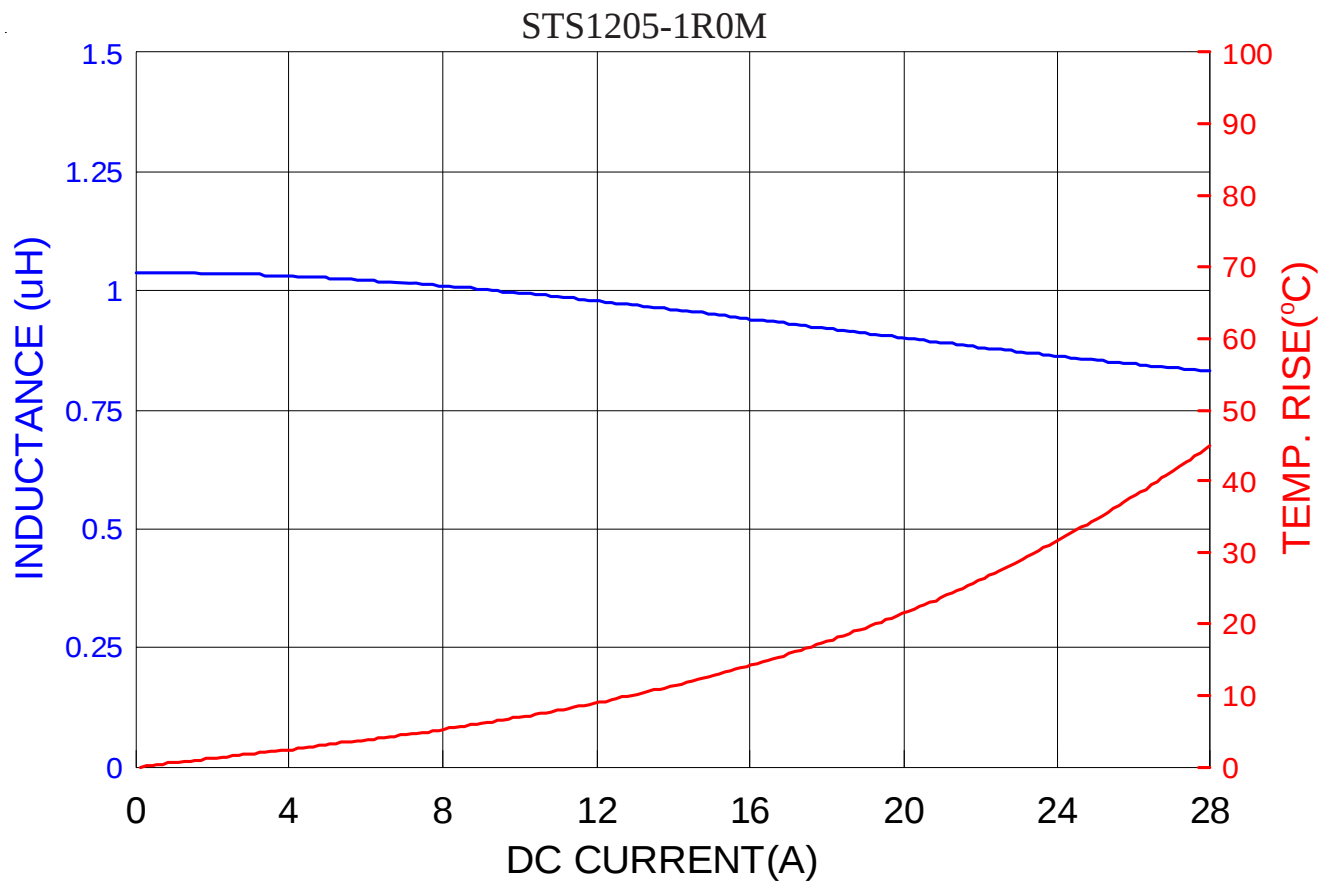
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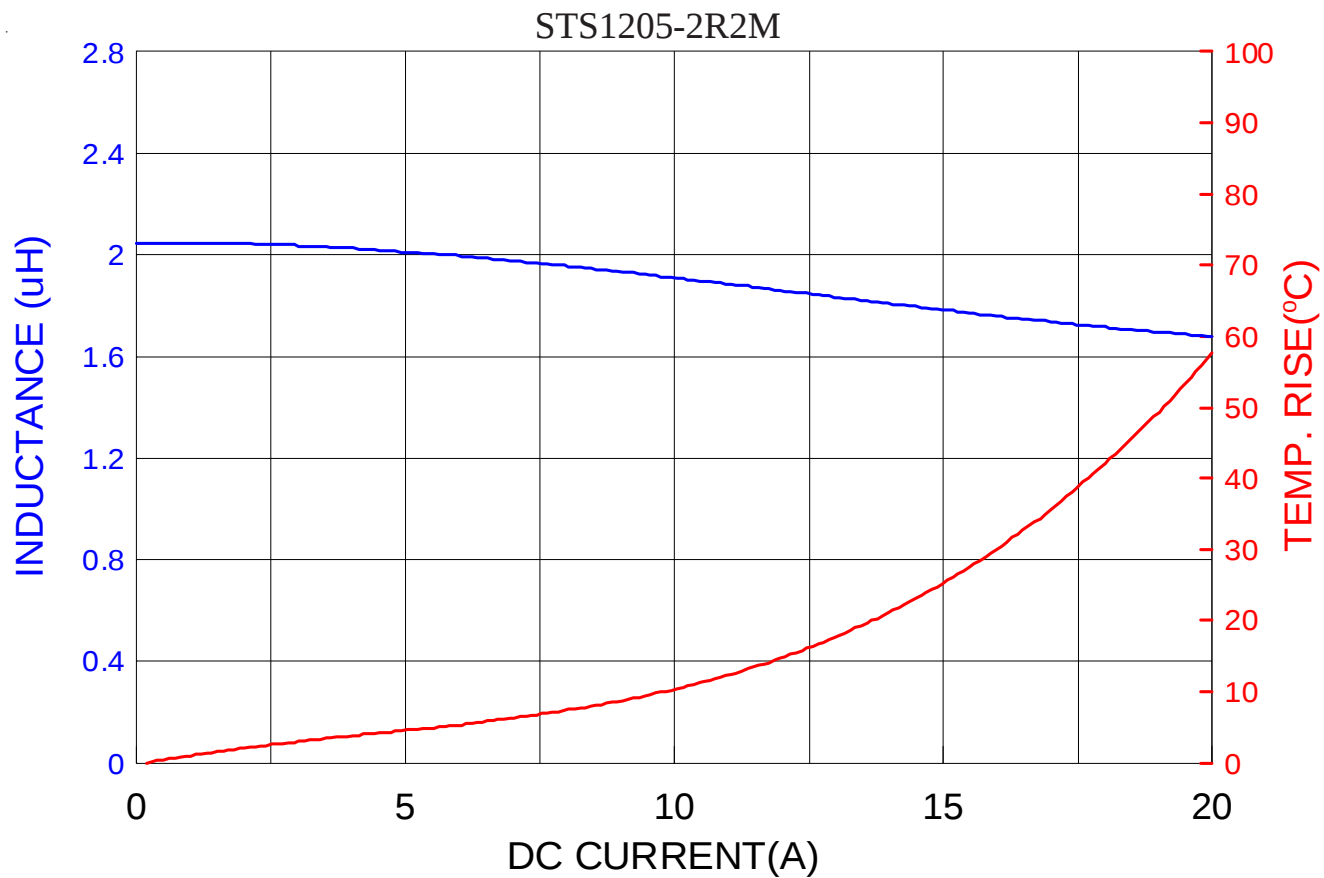
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