New Product

SURFACE MOUNT SHIELDED POWER INDUCTOR SERIES STS1242

FEATURES

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

ELECTRICAL SPECIFICATIONS

- Inductance range- Test condition0.36uH to 10.0uH1Vrms @ 100kHz

-Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

-Operating temp. -55°C to +125°C -Core Mixed material

- Packaging
 - T&R
 900 pieces per reel
 - Tape & reel spec.
 Tape
 24 mm embossed carrier

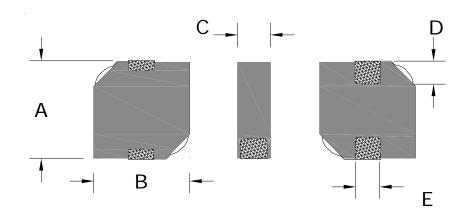
Reel 330 mm reel

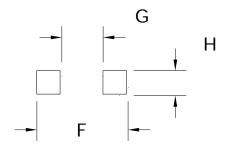
SPECIFICATIONS

		Tol	DCR	Rated	Saturation
Part Number	L(uH)	% <u>+</u>	(ohms)	Current (A)	Current (A)
			Max	(Note 1)	(Note 2)
STS1242-R36M	0.36	20	0.0014	28	40
STS1242-R47M	0.47	20	0.0016	26	30
STS1242-R56M	0.56	20	0.0019	25	25
STS1242-R68M	0.68	20	0.0024	21	24
STS1242-1R0M	1.0	20	0.0035	20	24
STS1242-1R5M	1.5	20	0.0075	12	18
STS1242-2R2M	2.2	20	0.0086	11.5	16.5
STS1242-3R3M	3.3	20	0.0100	10.0	14
STS1242-4R7M	4.7	20	0.0135	8.0	11
STS1242-6R8M	6.8	20	0.0240	6.5	10
STS1242-100M	10	20	0.0350	5.0	7

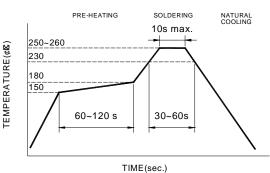
Dimensions in millimeters

Length A	11.8 max
Width B	10.5 max
Height C	4.2 max
Terminal length D	2.2 ± 0.5
Terminal width E	2.9 ± 0.5
Footprint length F	12.4 ref
Pad spacing G	5.4 ref
Pad width H	4.5 ref





Suggested Reflow Profile

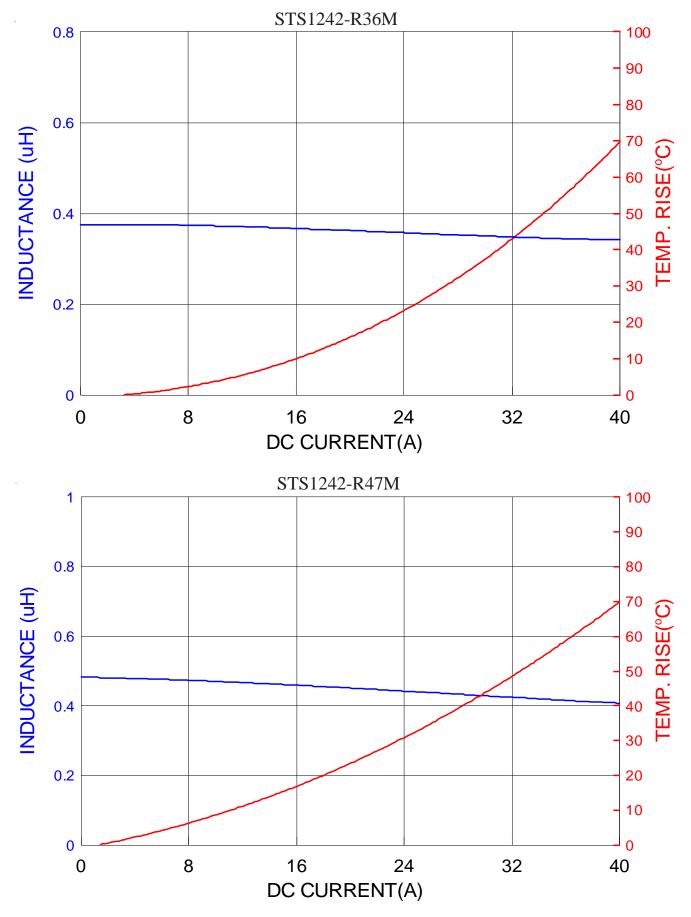


Notes:

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

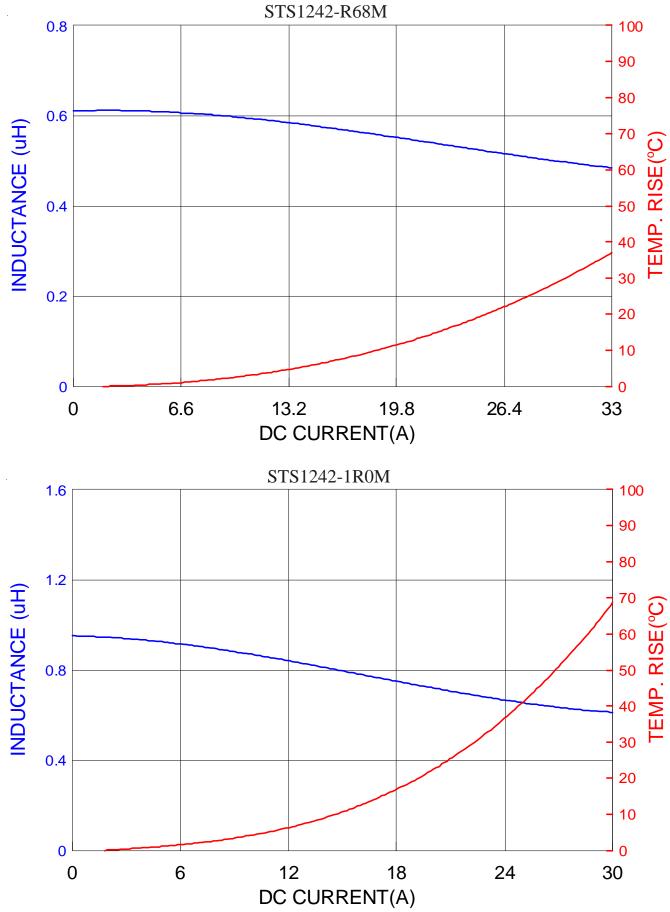
All test data based on 25°C ambient

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.



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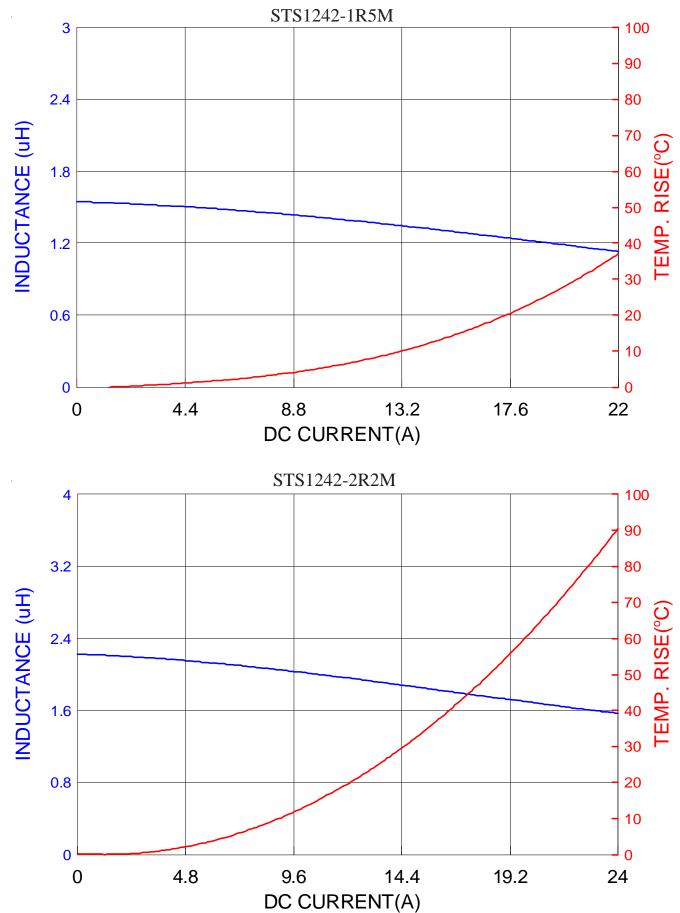
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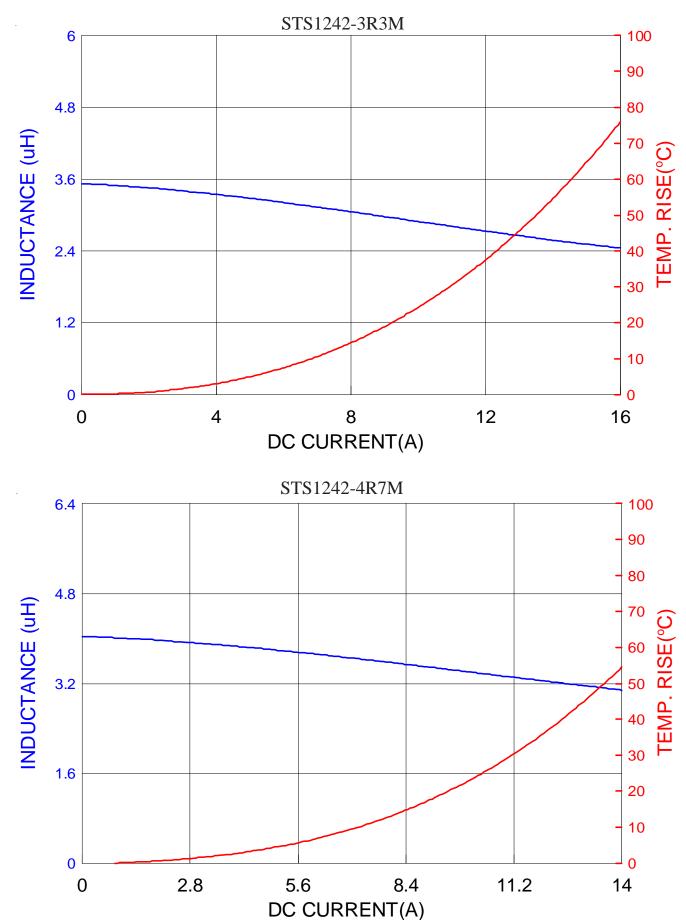
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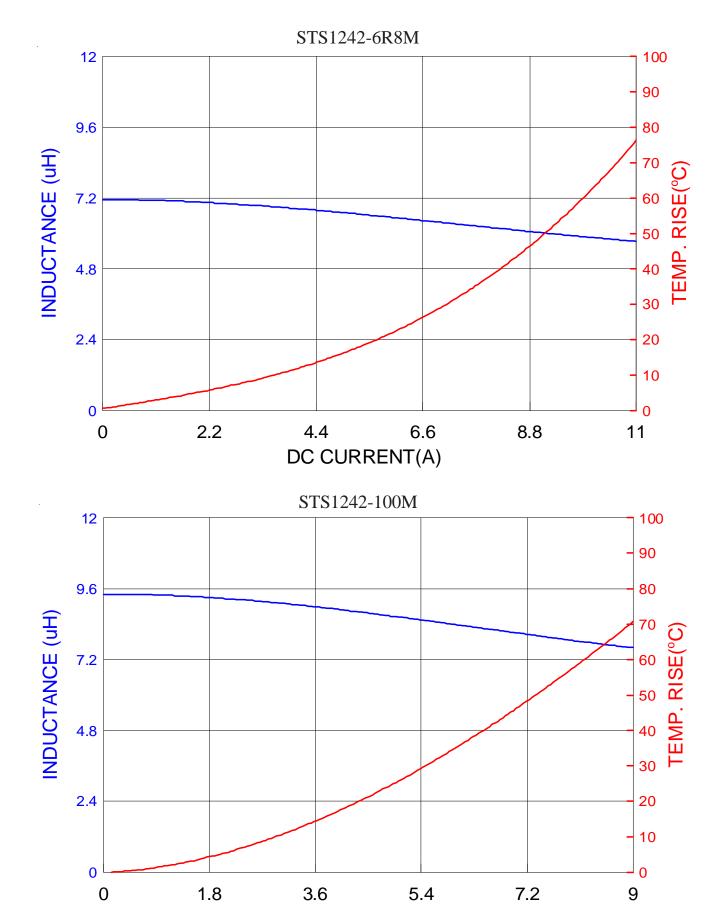


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