New Product

SURFACE MOUNT SHIELDED POWER INDUCTOR SERIES STS704

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 condition0.33uH to 10.0uH1Vrms @ 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
 1000 pieces per reel
 - Tape & reel spec.
 Tape
 16 mm embossed carrier

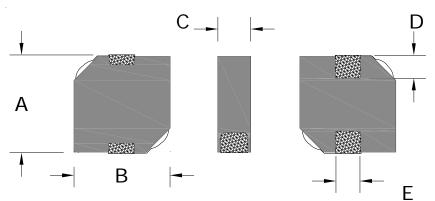
Reel 330 mm paper reel

SPECIFICATIONS

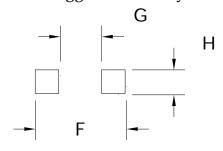
		Tol	DCR	Rated	Saturation
Part Number	L(uH)	% <u>+</u>	(ohms)	Current (A)	Current (A)
			max	(Note 1)	(Note 2)
STS704-R33M	0.33	20	0.0014	25	32
STS704-R47M	0.47	20	0.0025	20	30
STS704-R68M	0.68	20	0.0038	17	28
STS704-1R0M	1.0	20	0.0058	15	20
STS704-1R5M	1.5	20	0.0084	16	18
STS704-2R2M	2.2	20	0.0150	12	14
STS704-3R3M	3.3	20	0.0180	10	13
STS704-4R7M	4.7	20	0.0210	7.0	9.0
STS704-6R8M	6.8	20	0.0300	5.5	7.0
STS704-100M	10	20	0.0600	4.5	5.0

Dimensions in millimeters

Length A	7.8 max
Width B	7.0 max
Height C	4.2 max
Terminal length D	1.6 ± 0.5
Terminal width E	2.1 ± 0.5
Footprint length F	8.7 ref
Pad spacing G	3.7 ref
Pad width H	3.5 ref



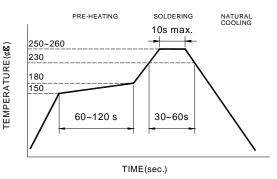
Suggested PCB layout



Notes:

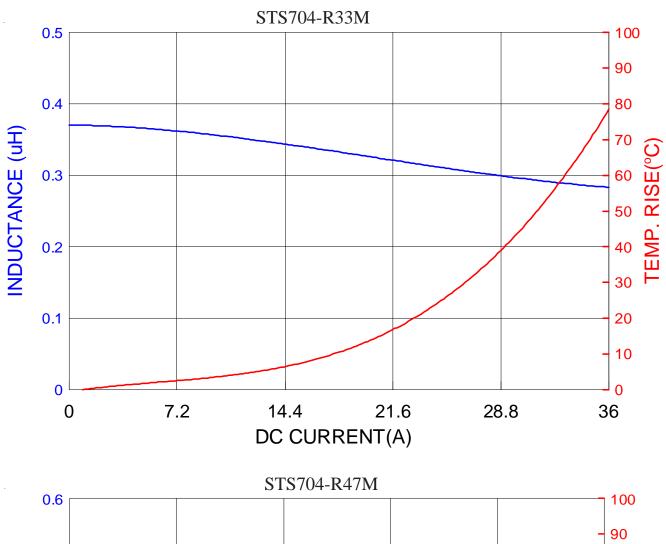
- 1. Based on ΔT approximately 40°C
- 2. L drops 20% typical

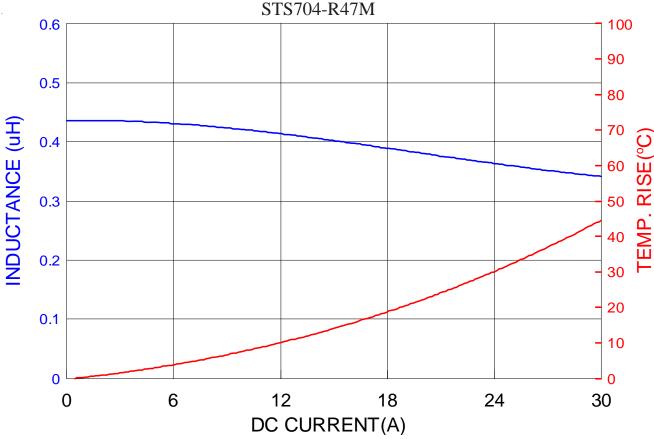
Suggested Reflow Profile



All test data based on 25°C ambient

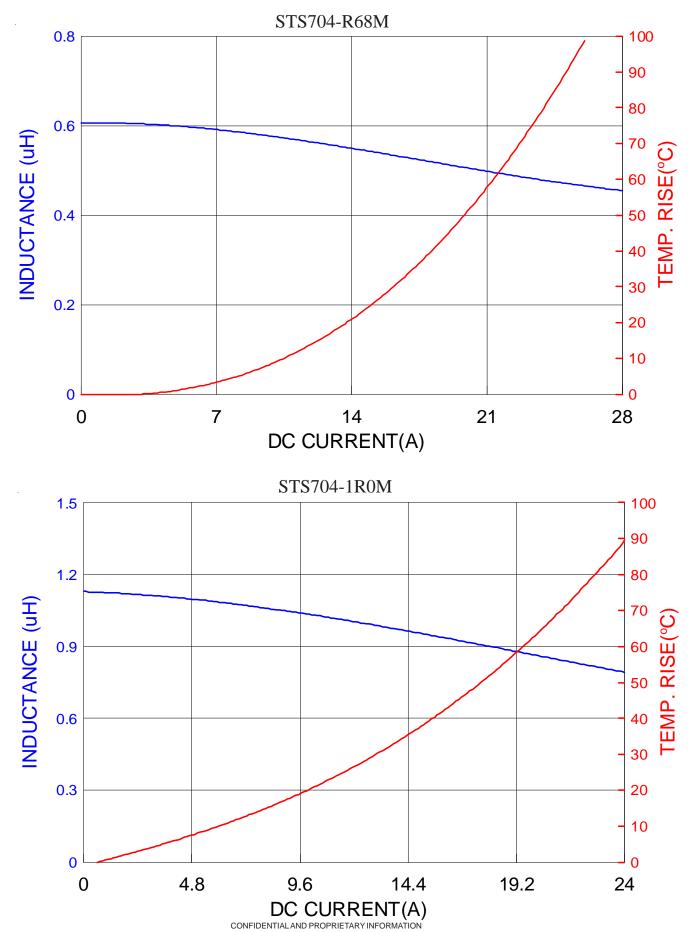
Part temperature (ambient + temp rise) must not exceed 125°C under worst case operating conditions. Circuit design, components, PCB trace size, airflow and other cooling provisions all effect the part temperature.





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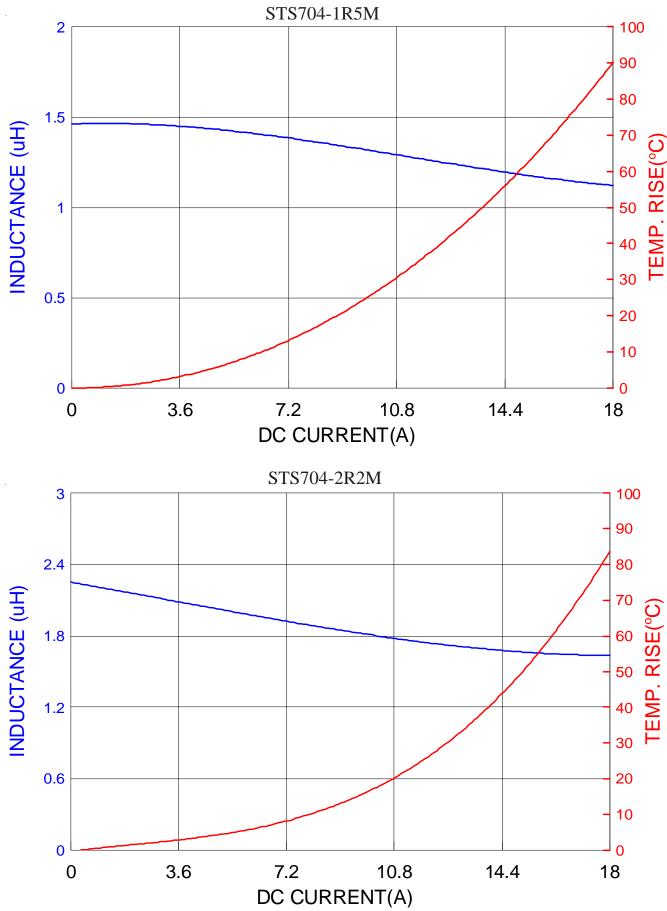
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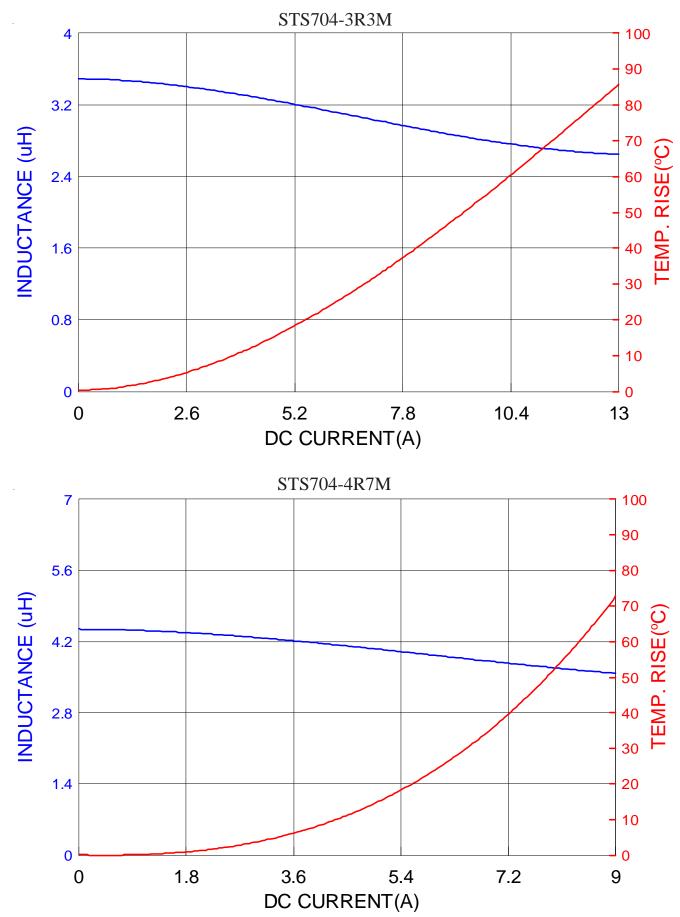
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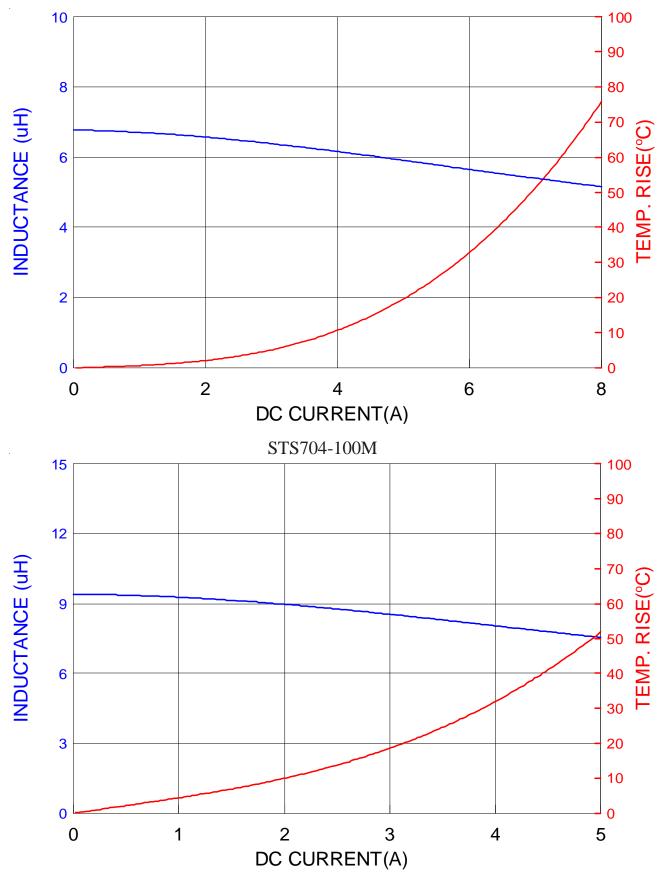


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