New Product

SURFACE MOUNT SHIELDED POWER INDUCTOR SERIES STS705

FEATURES

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

ELECTRICAL SPECIFICATIONS

- Inductance range	0.68uH to 6.8uH
- Test condition	100kHz @ 1Vrms
-Testequipment	Quadtech 1750 LCR Meter

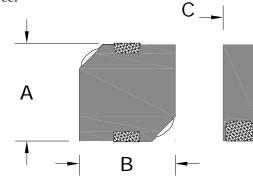
PHYSICAL SPECIFICATIONS

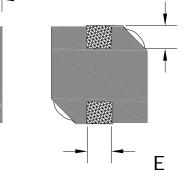
-Operating temp.	-55°C to +125°C
- Shielding	Mixed Material

- -Shielding
- Core & base Mixed Material
- Packaging T & R 800 pieces per reel
- Tape & reel spec.
 - Tape 16 mm embossed carrier
 - Reel 330 mm paper reel

Dimensions in millimeters

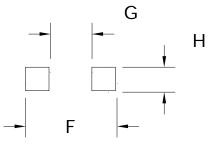
Length A	7.8 max
Width B	7.0 max
Height C	5.2 max
Terminal length D	1.6 ± 0.5
Terminal width E	2.1 ± 0.5
Footprint length F	8.7 ref
Pad spacing G	3.7 ref
Pad width H	3.5 ref





D

Suggested PCB layout



Notes:

1. Based on ΔT approximately 40°C

2. L drops 20% typical

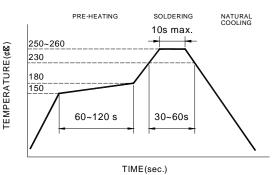
All test data based on 25°C ambient

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.

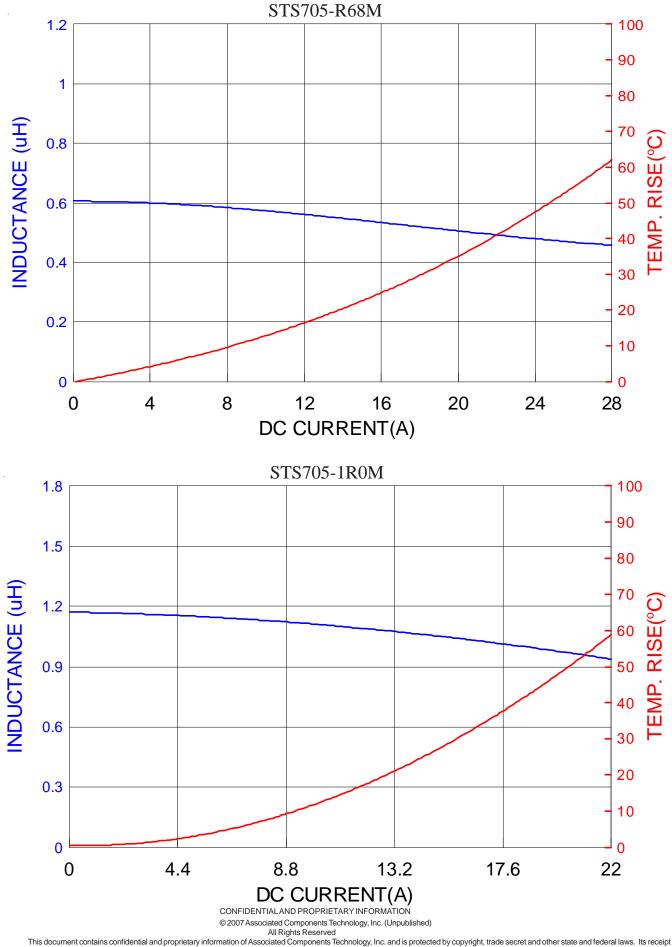
SPECIFICATIONS

		Tol	DCR	Rated	Saturation
Part Number	L(uH)	% <u>+</u>	(ohms)	Current (A)	Current (A)
			max	(Note 1)	(Note 2)
STS705-R68M	0.68	20	0.0038	18	25
STS705-1R0M	1.0	20	0.0042	15	20
STS705-2R2M	2.2	20	0.0082	13	14
STS705-3R3M	3.3	20	0.0152	10	12
STS705-4R7M	4.7	20	0.0186	7	8
STS705-6R8M	6.8	20	0.0300	6	6

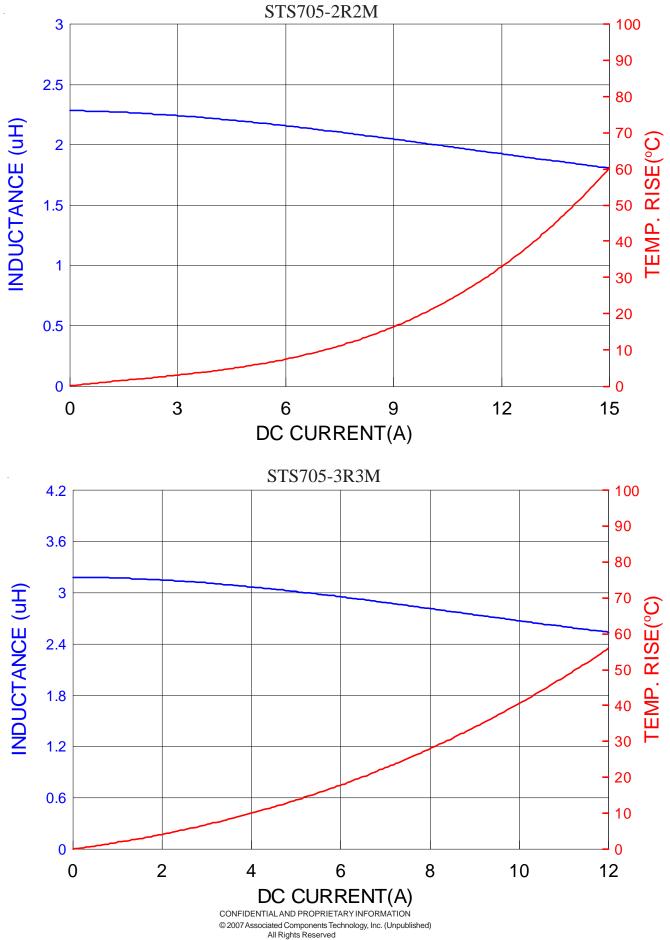
Suggested Reflow Profile



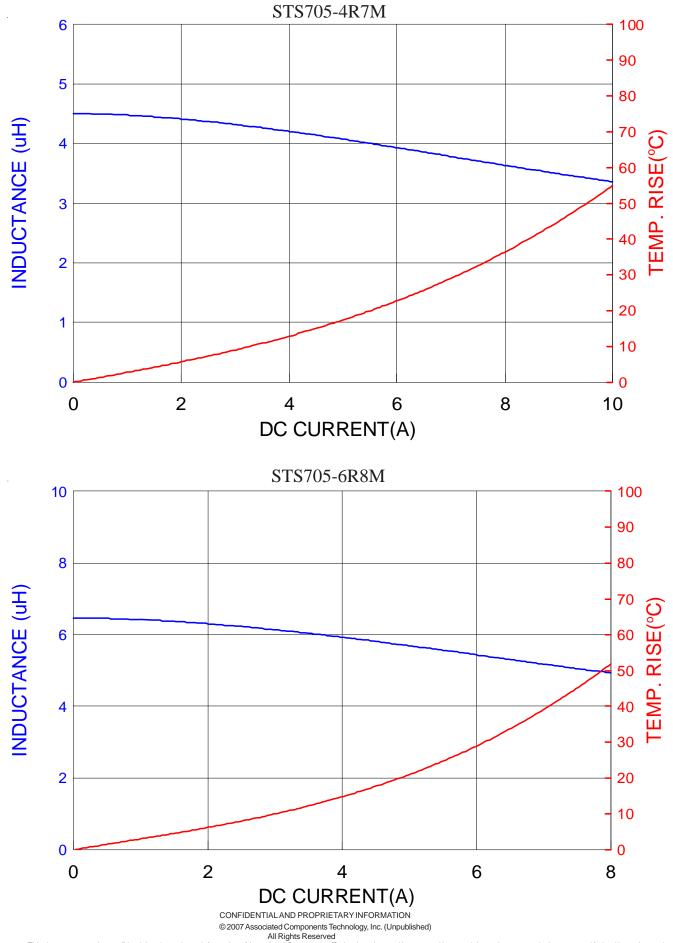
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