

MDSA Series

SMD Low Profile High Current Molded Inductor

Size 7050



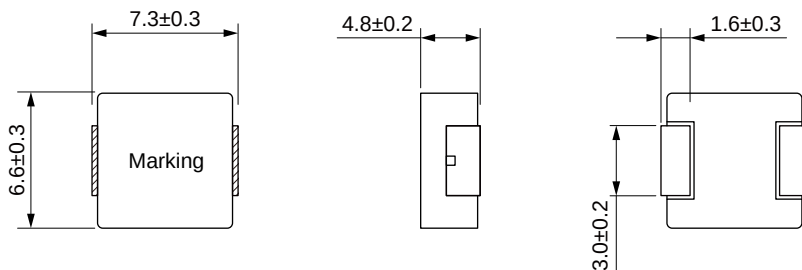
FEATURES

- Shielded construction
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- Ultra low buzz noise, due to composite construction.
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- AEC-Q200 qualified
- Operating temperature: -55 to +155 °C (including self-temperature rise)
- Quantity: 800PCS

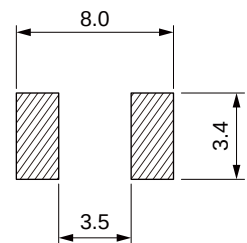
APPLICATION

- Noise filter for various drive circuitry requiring high temperature operation and peak current handling capability.
- Boost-Converter
- Buck-Converter DC/DC

Dimensions: [mm]



Land Pattern: [mm]



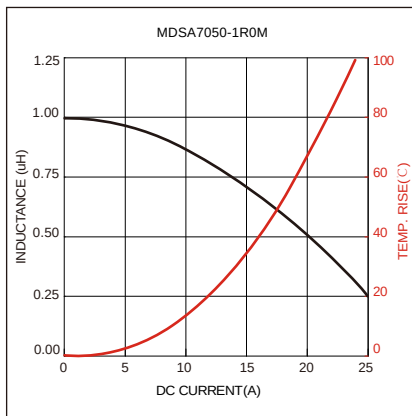
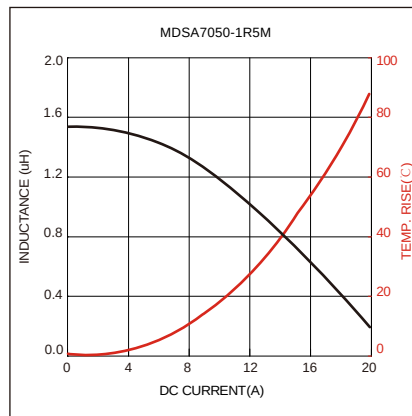
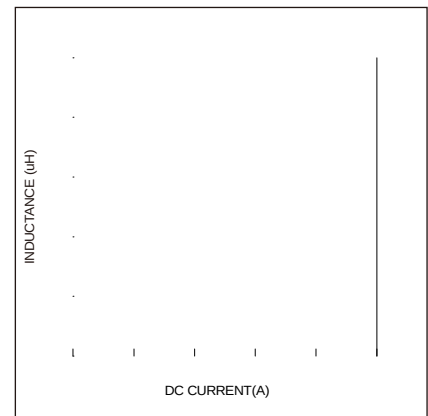
Electrical Properties:

	(μH)		(A)	(A)	Saturation (A)	Saturation (A)	(mΩ)	(mΩ)
MDSA7050-1R0M			17.0			12.5	5.70	6.30
MDSA7050-1R5M	1.50		15.0	12.5	13.0		6.70	7.40
MDSA7050-2R2M						8.20		11.7
MDSA7050-3R3M	3.30		13.0		9.50	7.70		
MDSA7050-4R7M	4.70			9.20	8.80	7.20		24.3
MDSA7050-5R6M	5.60			8.20	8.00	6.90	28.3	33.4
MDSA7050-6R8M	6.80		9.00	7.70	7.60	6.70	30.3	36.4
MDSA7050-8R2M	8.20		7.50	6.30	6.50	5.80	38.9	45.5

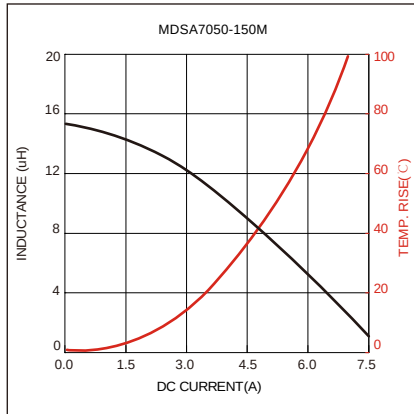
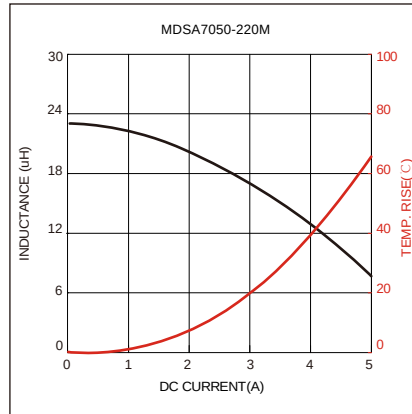
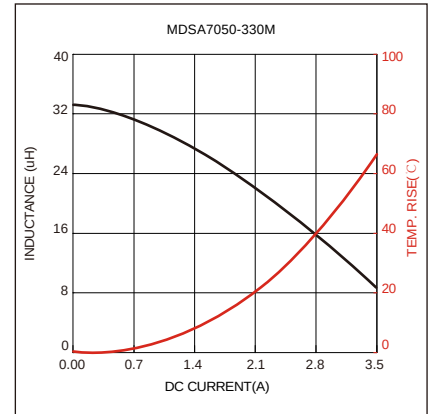
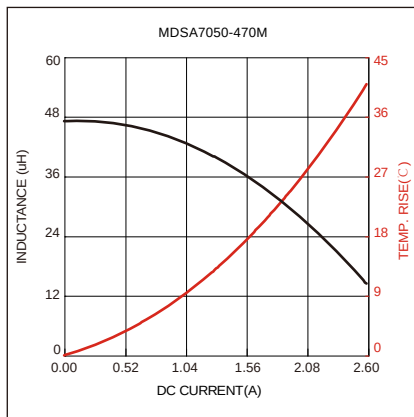
Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$

Typical Electrical Characteristics:



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Soldering Reflow:

Preheat condition: 150 ~200℃ / 60~120 sec.

Allowed time above 217℃ : 60~90 sec.

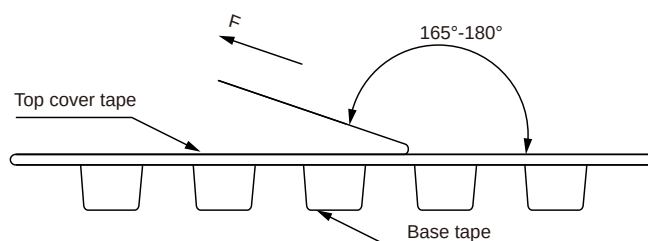
Max temperature: 260℃ .

Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension :

Peel force of top cover tape:



The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

Marking

Reel Dimension: [mm]



Packaging Quantity: