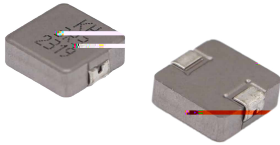


MDSA Series

SMD Low Profile High Current Molded Inductor

Size 1040



FEATURES

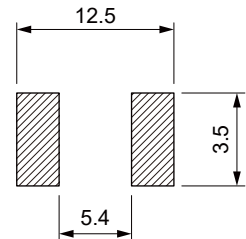
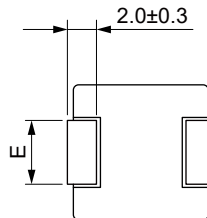
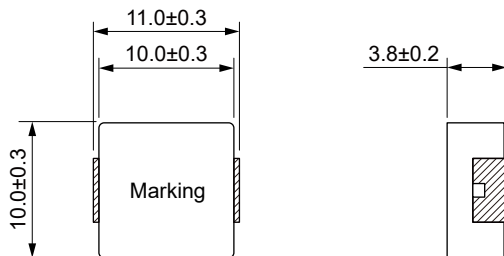
- Capable of corresponding high frequency .
- Low loss realized with low DCR.
- High performance (Isat) realized by metal dust core.
- 100% Lead(Pb)-Free and RoHS compliant.
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APPLICATION

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Dimensions: [mm]

Land Pattern: [mm]



Electrical Properties:

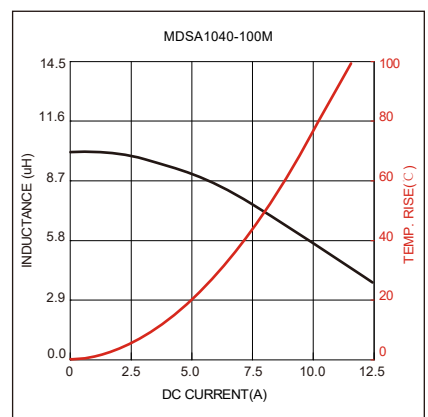
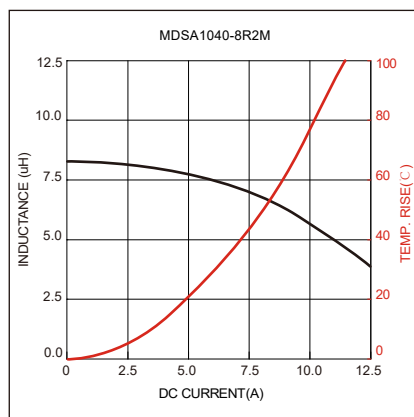
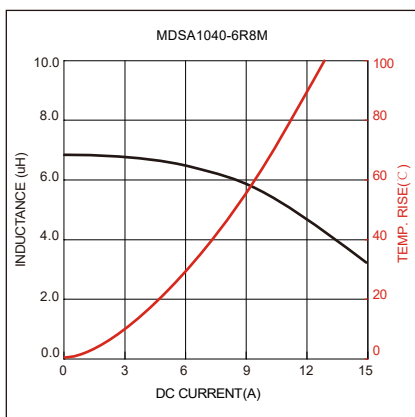
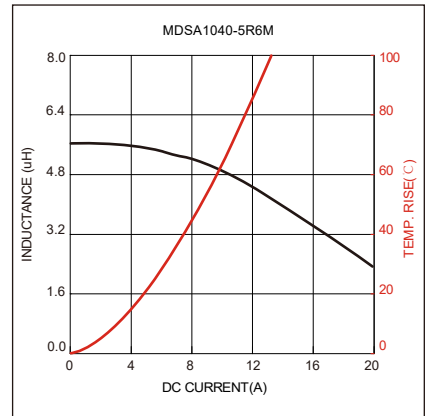
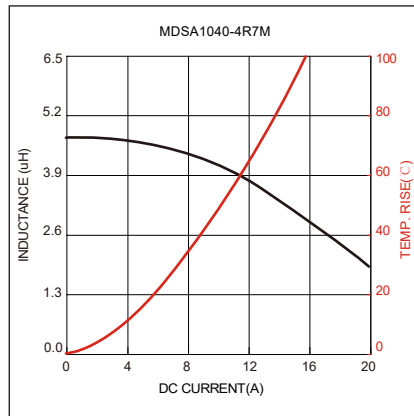
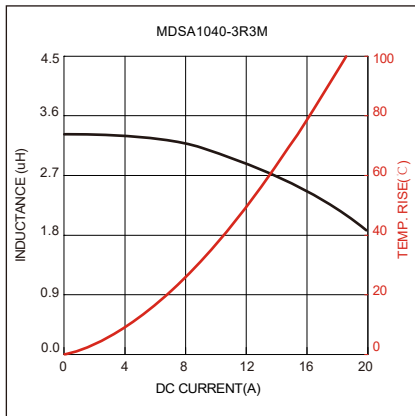
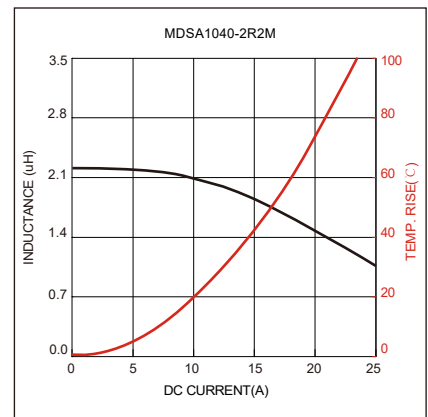
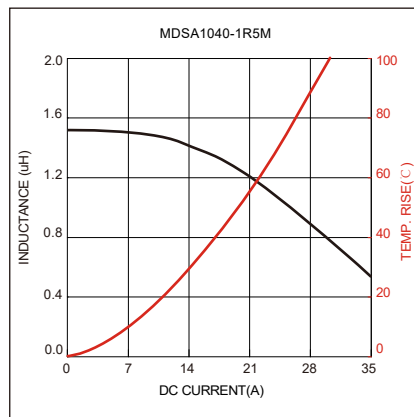
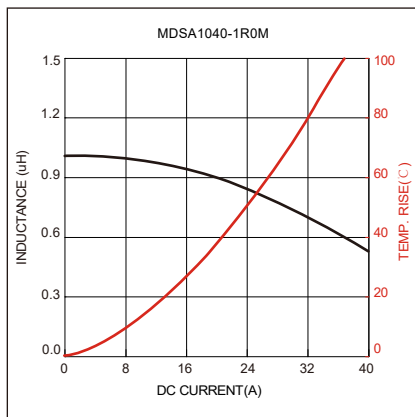
Part No	Inductance @ 100KHz/1V	Tolerance	Temperature Rise Current Typ. (A)	Current Typ. (A)	DC Resistance Typ.	DC Resistance Max.	E
MDSA1040-1R0M	1.00	±20%	19.0	28.0	3.00		
		±20%	16.8		3.80	4.40	
MDSA1040-2R2M	2.20	±20%	14.4	19.2		7.00	3.0±0.3
MDSA1040-3R3M	3.30	±20%		16.8	10.7	12.0	3.0±0.3
MDSA1040-4R7M	4.70	±20%	8.40	14.6	16.0		3.0±0.3
		±20%	7.60		19.2	23.3	3.0±0.3
MDSA1040-6R8M	6.80	±20%	7.40	11.7	22.2		3.0±0.3
MDSA1040-8R2M	8.20	±20%	7.20	9.00		29.0	3.0±0.3
MDSA1040-100M	10.0	±20%	7.20	8.20		31.0	3.0±0.3
		±20%		6.70	42.0	46.0	3.0±0.3

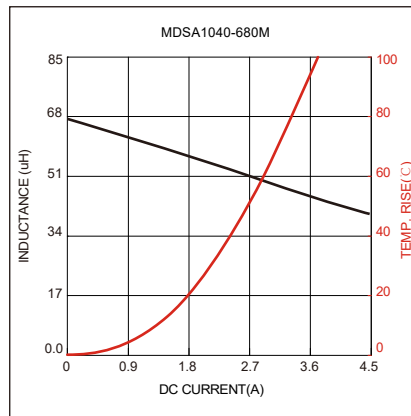
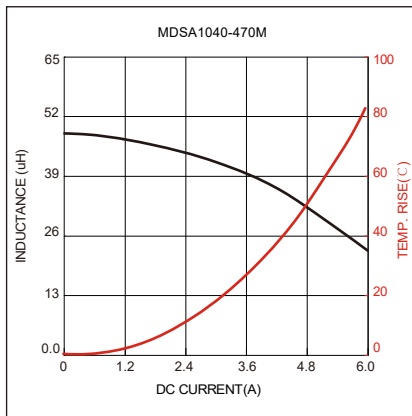
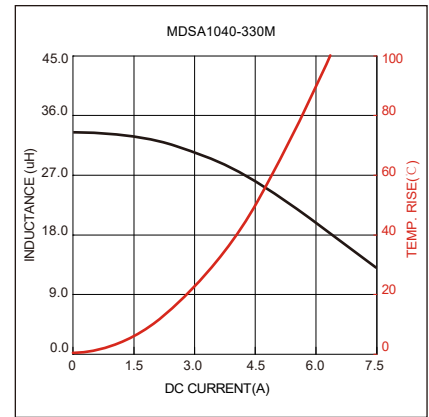
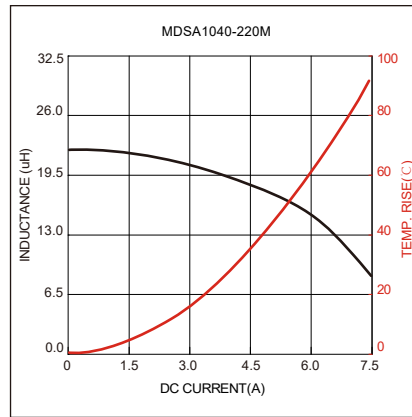
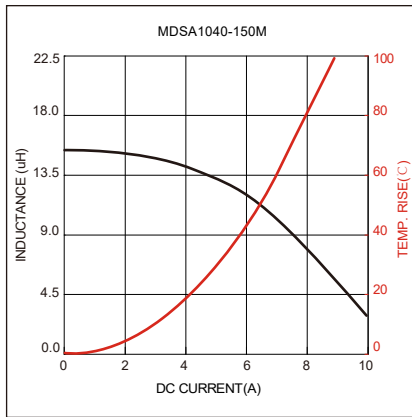
Part No	Inductance @ 100KHz/1V	Tolerance	Temperature Rise Current Typ. (A)	Current Typ. (A)	DC Resistance Typ.	DC Resistance Max.	E
MDSA1040-220M	22.0	±20%	4.70			67.0	3.0±0.3
MDSA1040-330M	33.0	±20%	4.20			92.0	3.0±0.3
MDSA1040-470M	47.0	±20%	3.30	4.70	126	144	3.0±0.3
MDSA1040-680M	68.0	±20%	2.40	3.10	193	212	3.0±0.3

Saturation Current will cause L to drop approximately 30%

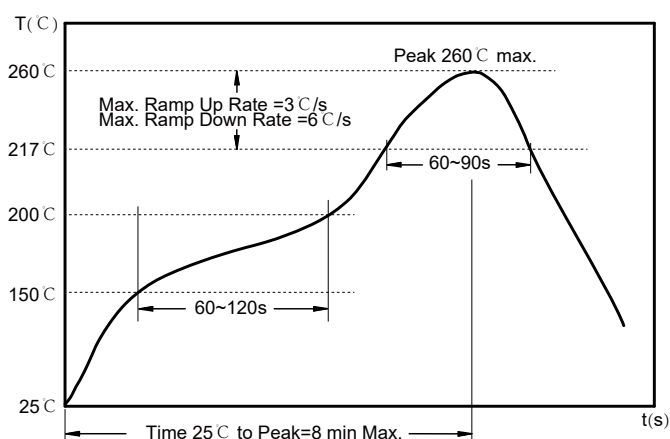
Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$

Typical Electrical Characteristics:





Soldering Reflow:



Preheat condition: 150 ~200 °C / 60~120 sec.

Allowed time above 217 °C : 60~90 sec.

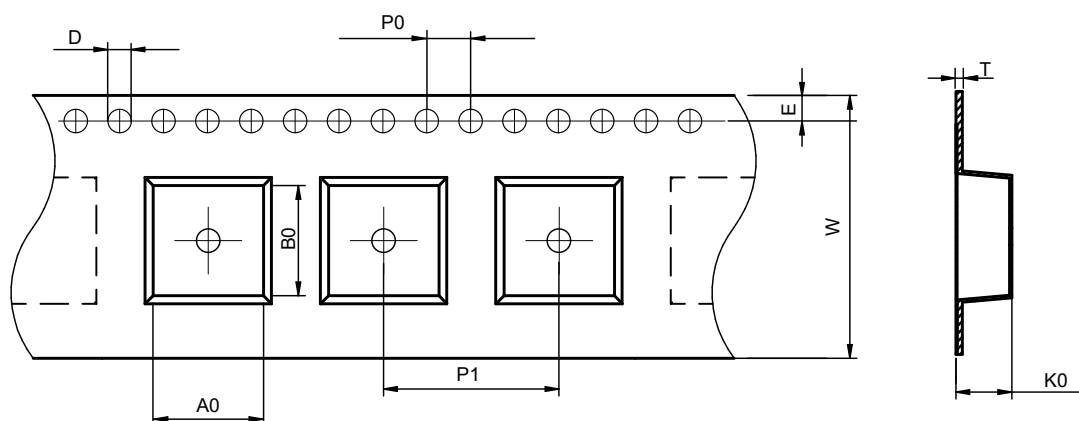
Max temperature: 260 °C .

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

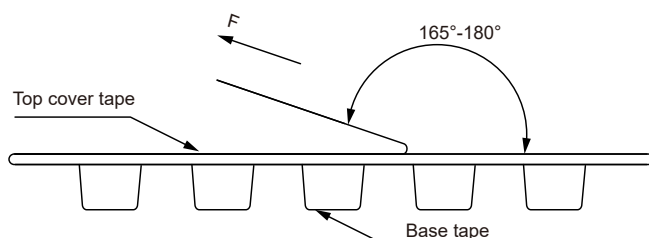
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDSA1040	10.4 ± 0.1	11.6 ± 0.1	1.5 ± 0.1	4.0 ± 0.1	16.0 ± 0.1	24.0 ± 0.3	4.3 ± 0.1	1.75 ± 0.1	0.35 ± 0.05

Peel force of top cover tape:

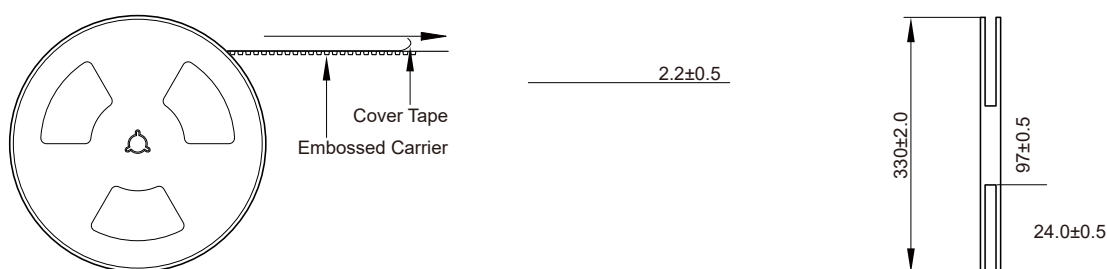


The peel force of top cover tape shall be between 0.1 to 1.3 N

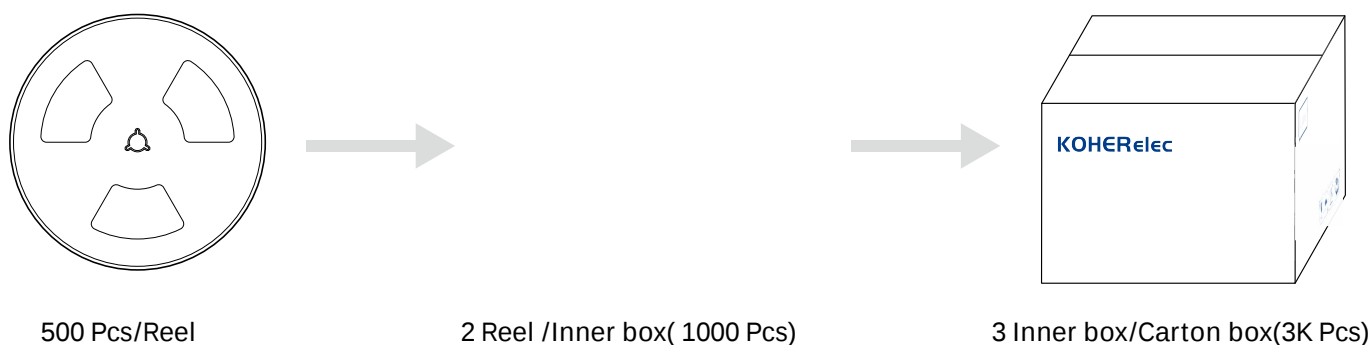
Product Marking:

Marking	KH+Printing Inductance)
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Reel Dimension: [mm]



Packaging Quantity:



Cautions and Warnings:

Storage Conditions:

- The storage period is within 12 months after the completion of production. Be sure to follow the storage conditions (temperature: -5 to 35°C, humidity: 75% RH Max). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. The warranty period is one year.
- Product should not be exposed to environment with high temperature, high humidity, dust, corrosive gas and etc.
- Products should 1144 4.142 2.071 3.214 2.071 2.07 c2.071 0.927 1.1.071 0.928 -2. c114t728 -.2153.21 the
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Operation Instructions:

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