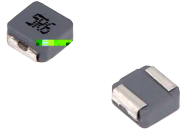


# MDA HT Series

## SMD Low Profile High Current Molded Inductor

### Size 4020



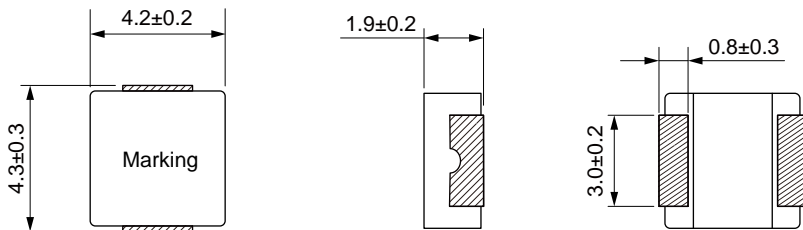
#### FEATURES

- Low loss realized with low DCR.
- y
- 100% Lead(Pb)-Free and RoHS compliant.
- High performance (Isat) realized by metal dust core.
- ° - # j
- \ #
- j h#o

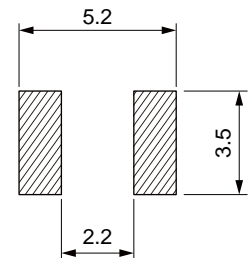
#### APPLICATION

- =
- HVAC
- )
- Audio subsystem
- Digital instrument cluster
- @ † @

#### Dimensions: [mm]



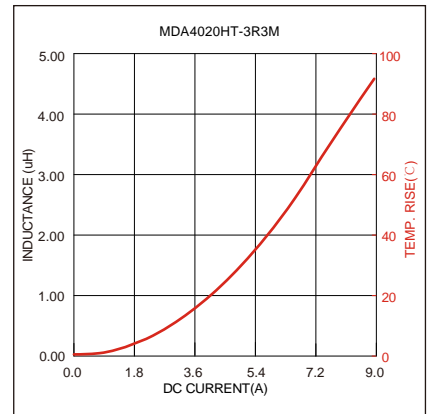
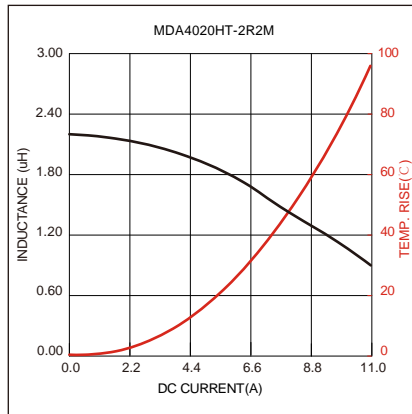
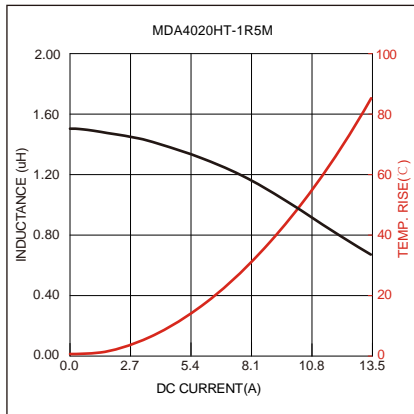
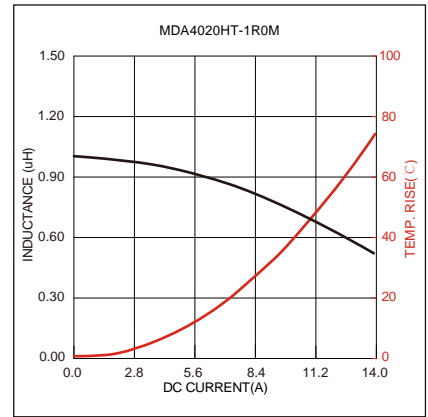
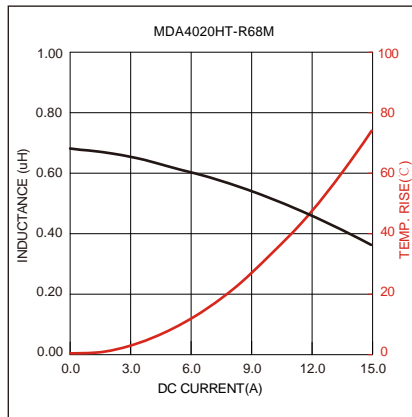
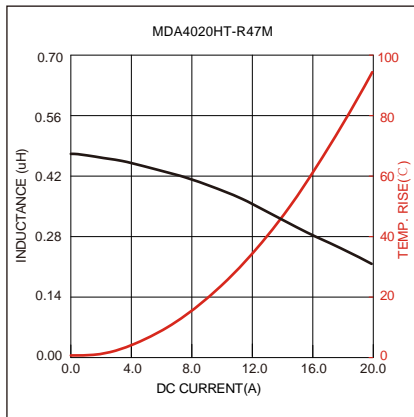
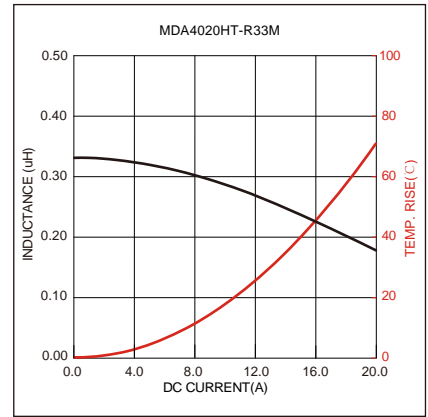
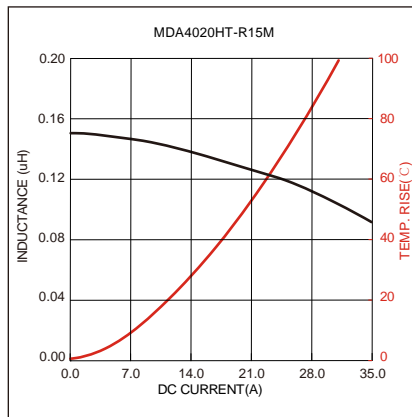
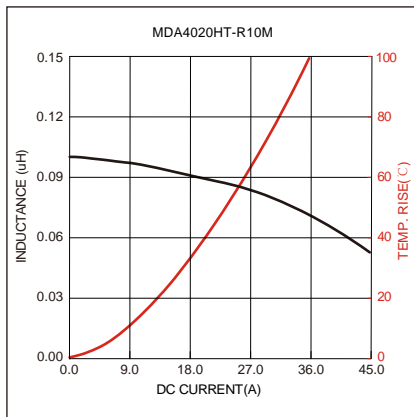
#### Land Pattern: [mm]

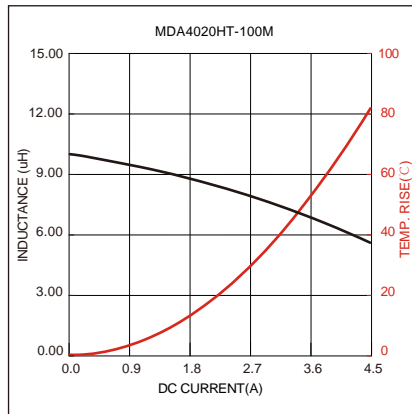
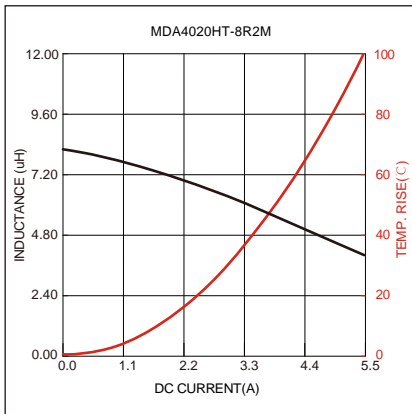
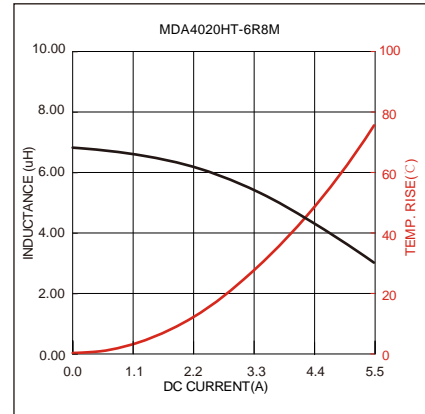
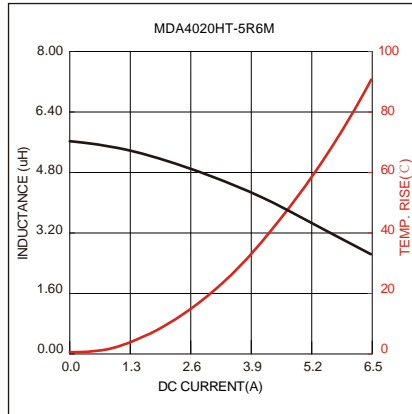
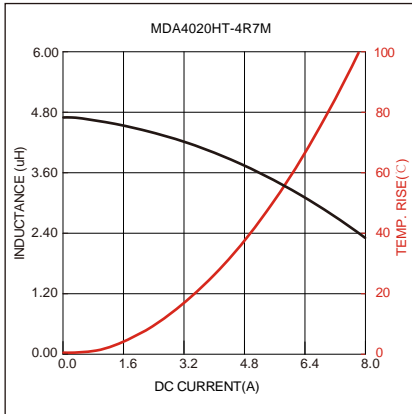


#### Electrical Properties:

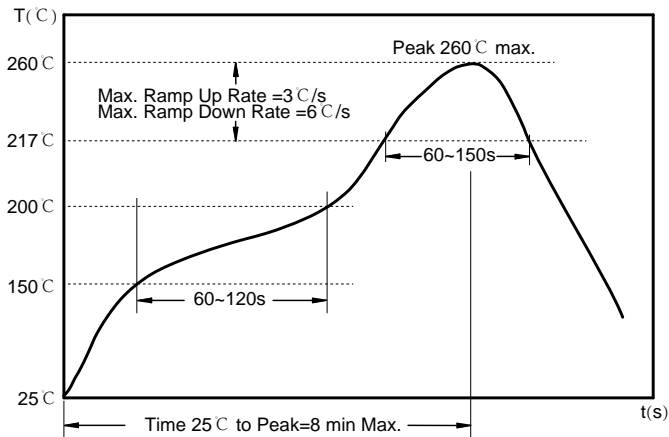
Part No.	DCR [mΩ]	Inductance [μH]	Isat [A]	Isat [A]	Isat [A]	Isat [A]	Isat [A]	Isat [A]
MDA4020HT-R10M	0.10	±20%	19.0	18.0	32.2	32.0	1.9	2.3
MDA4020HT-R15M	0.15	±20%	16.5	15.0	26.2	26.0	3.1	3.8
MDA4020HT-R33M	0.33	±20%	15.0	13.0	13.3	13.0	5.0	5.8
MDA4020HT-R47M	0.47	±20%	13.0	11.0	11.3	11.0	6.0	7.2
MDA4020HT-R68M	0.68	±20%	11.0	10.0	10.2	10.0	8.2	9.9
MDA4020HT-1R0M	1.00	±20%	10.0	9.5	10.0	9.5	11.5	13.8
MDA4020HT-1R5M	1.50	±20%	9.0	8.0	9.0	8.0	15.4	18.5
MDA4020HT-2R2M	2.20	±20%	7.2	6.5	6.4	6.2	25.0	30.0
MDA4020HT-3R3M	3.30	±20%	5.5	5.0	6.3	6.2	41.0	49.2

## Typical Electrical Characteristics:





## Soldering Reflow:



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

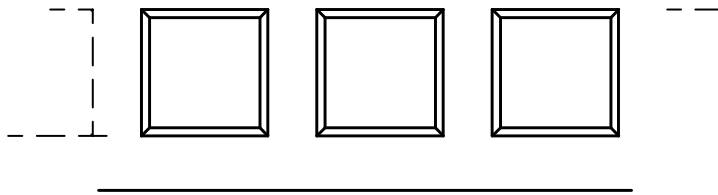
Allowed time above 217 °C : 60~150 sec.

Max temperature: 260 °C .

Allowed Reflow time: 3x max.

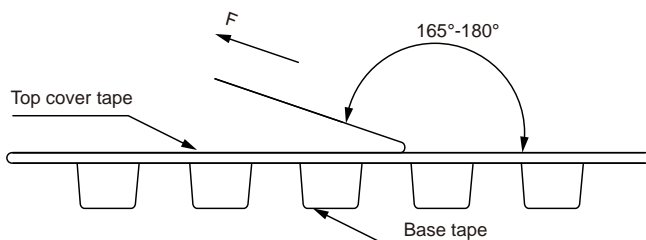
## Packaging Information:

### Tape Dimension :



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)
MDA4020HT	4.6± 0.1	4.9± 0.1	1.5± 0.1	4.0± 0.1	8.0± 0.1	12± 0.3	2.3± 0.1	1.75± 0.1

### Peel force of top cover tape:

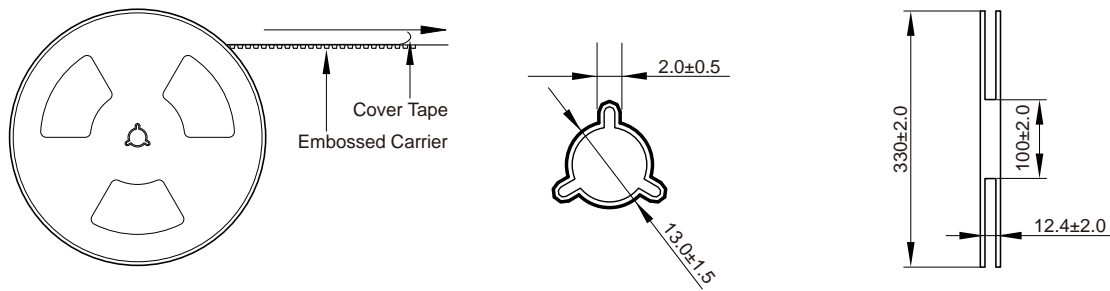


The peel force of top cover tape shall be between 0.1 to 1.3 N

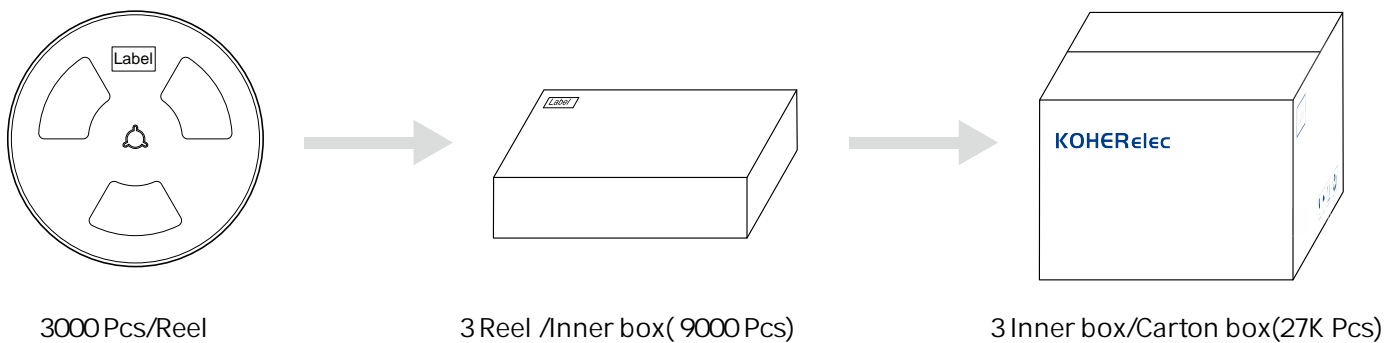
### Product Marking:

Marking	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 be handled with care to avoid damage or contamination from perspiration and skin oils.
- Please always handle products carefully to prevent any damage caused by dropping down or inappropriate removing.

### Operation Instructions:

- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Generally, Koher might not be familiar with either customer's specific application or actual requests as customer does. As a result customer shall be responsible for checking and confirming whether Koher product with the performance described in the product specification is suitable for using in customer's particular application or not.