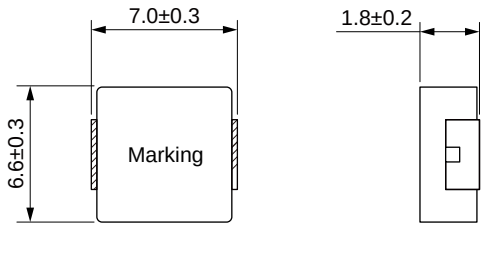
# SMD Power Inductor
# Size 6020

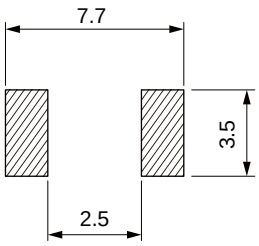
- Shielded construc on.
- Capable of corresponding high frequency.
- Low loss realized with low DCR.
- High performance (Isat) realized by Carbonyl Powder.
- Ultra low buzz noise, due to composite construc on.
- 100% Lead(Pb)-Free and RoHS compliant.
- AEC-Q200 qualified.
  Opera ng temperature: -55 to +125 °C(including self-temperature rise)
- Quan ty: 1500pcs.

- Headlamps, tail lamps and interior ligh ng.
- HVAC.
- Doors, window li and seat control.
- Audio subsystem.
- Digital instrument cluster.
- In-Vehicle Infotainment and naviga on.

## Di4wnsions: [mm]



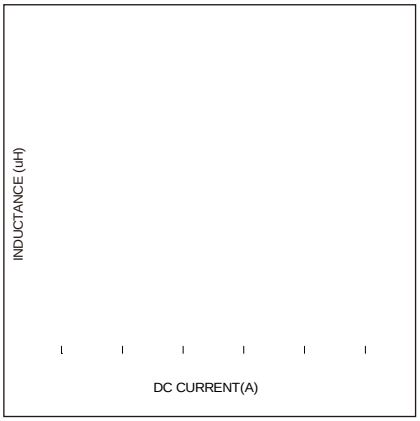

## Land Pattern: [mm]

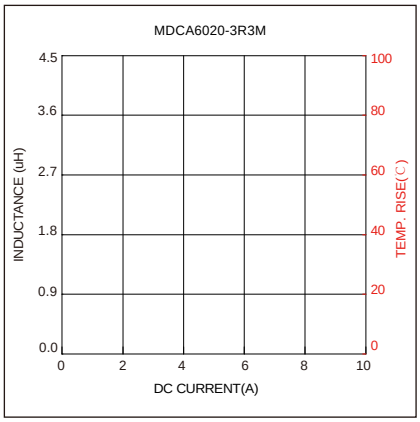


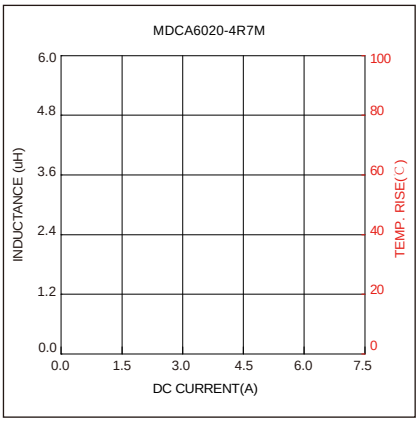

## Electrical Properties:

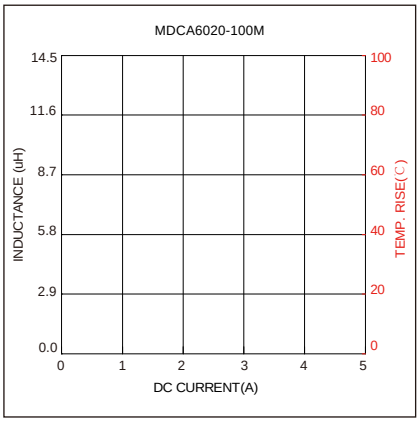
| Temperature Rise Current (A) | Current (A) | | |
|---|---|---|---|
| 21.0 | | 2.0 | 2.4 |
| 18.0 | | 2.3 | 2.7 |
| 15.0 | K | 3.5 | 4.0 |
| 14.0 | K | 4.5 | 5.0 |
| 11.7 | K | 7.1 | 8.3 |
| 11.0 | K | 7.9 | 9.3 |
| 10.5 | K | 8.3 | 10.0 |
| 8.0 | K | 16.5 | 18.0 |
| 7.0 | K | 23.0 | 27.0 |
| 6.0 | K | 32.0 | 37.0 |

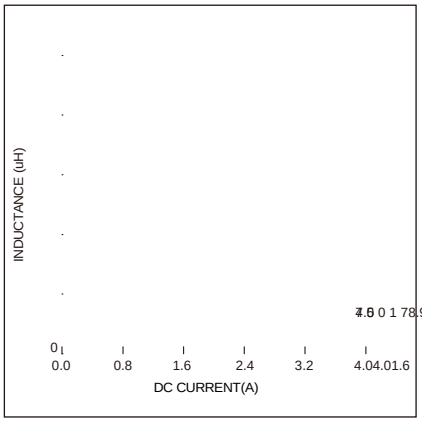
| Part No | Inductance @ 100KHz/1V | Tolerance | | | | |
|---|---|---|---|---|---|---|
| | 10.0 | | 2.8 | 4.0 | | 154 |
| MDCA6020-150M | 15.0 | | 2.1 | 3.3 | | |
| | 22.0 | | 1.5 | 2.5 | | |





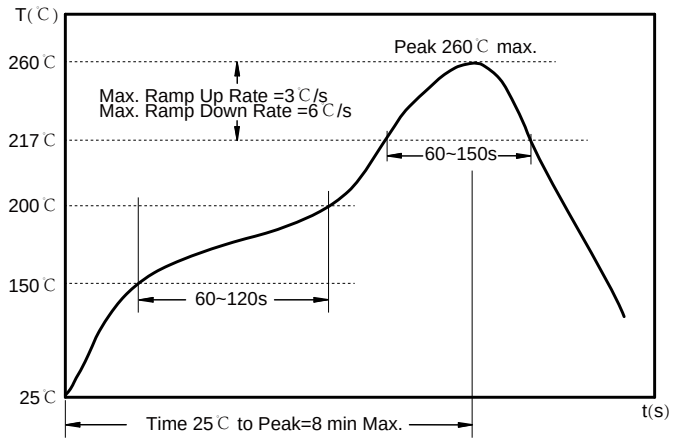




4.8 0 1 78.9296 316.4365 cm0 0 m0 0 lSQq 1Qq 1 0 0 1 192.8622 316.4365 cm0 0 m0 2.666 lSQqq 1 0 0 1

## Soldering Reflow:




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

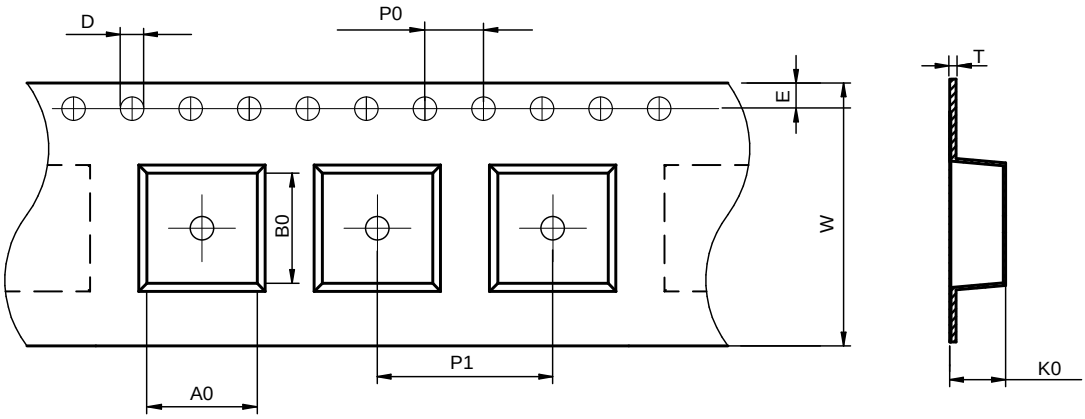
Allowed time above 217℃: 60~150 sec.

Max temperature: 260℃.

Allowed Reflow time: 2x max.

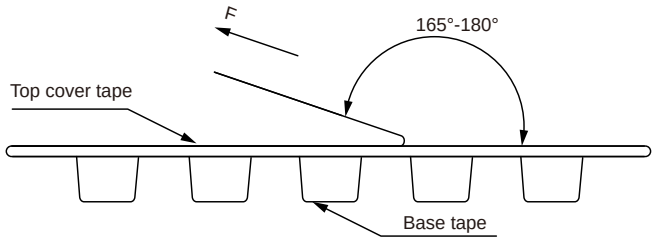
## Packaging Information:

### Tape Dimension:




| Series | A0 (mm) | B0 (mm) | D (mm) | P0 (mm) | P1 (mm) | W (mm) | K0 (mm) | E (mm) | T (mm) |
|---|---|---|---|---|---|---|---|---|---|
| MDCA6020 | 7.0 ± 0.1 | 7.7 ± 0.1 | 1.5 ± 0.1 | 4.0 ± 0.1 | 12.0 ± 0.1 | 16.0 ± 0.3 | 2.3 ± 0.1 | 1.75 ± 0.1 | 0.35 ± 0.05 |

### Peel force of top cover tape:

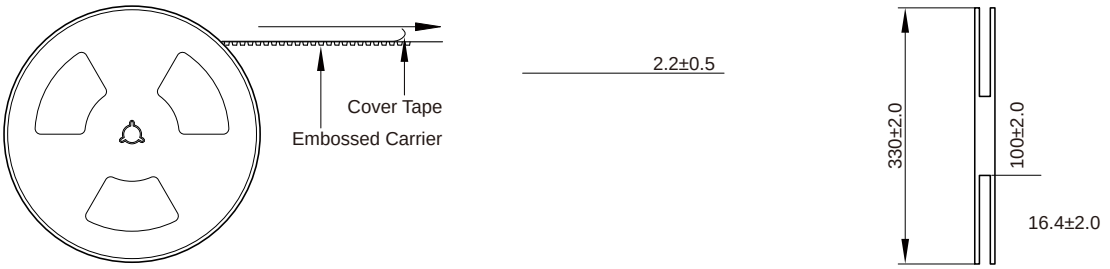



The peel force of top cover tape shall be between 0.1 to 1.3 N

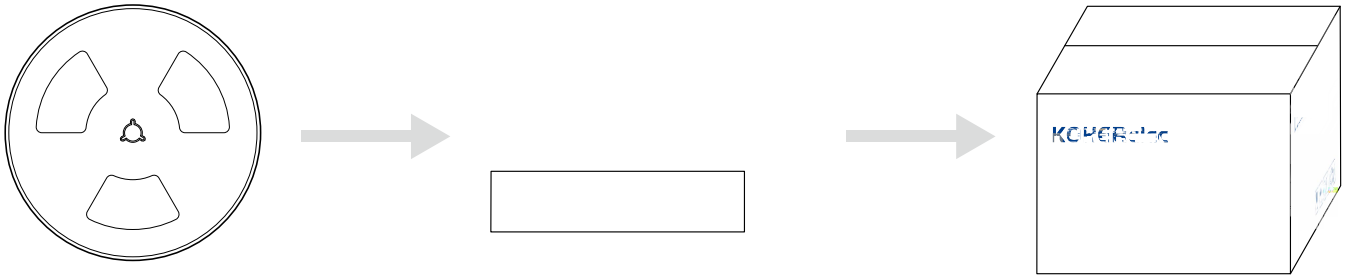
### Product Marking:

| Marking | Printing Inductance+period) |
|---|---|

## Reel Dimension：[mm]




## Packaging Quantity:



1500 Pcs/Reel

2 Reel /Inner box( 3000 Pcs)

3 Inner box/Carton box(9K Pcs)

# 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.