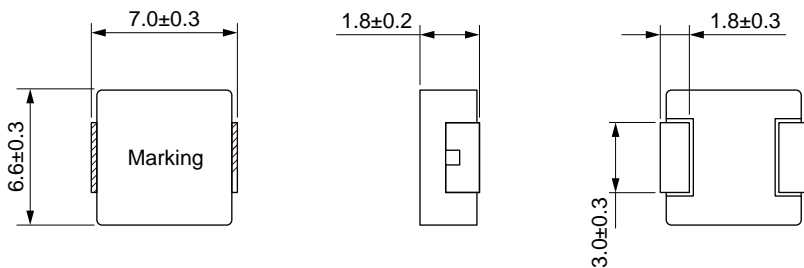


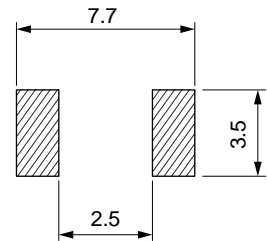
SMD Power Inductor Size 6020

- Shielded construction.
 - 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 construction.
 - 100% Lead(Pb)-Free and RoHS compliant.
 - AEC-Q200 qualified.
Operating temperature: -55 to +125 °C(including self-temperature rise)
 - Quantity: 1500pcs
- Headlamps, tail lamps and interior lighting.
 - HVAC.
 - Doors, window/line and seat control.
 - Audio subsystem.
 - Digital instrument cluster.
 - In-Vehicle Infotainment and navigation.

Dimensions: [mm]



Land Pattern: [mm]

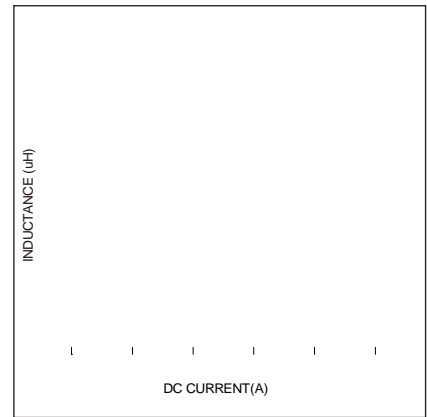


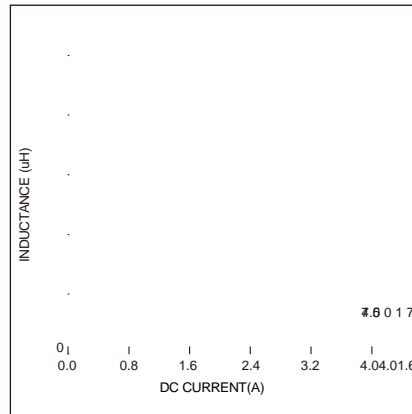
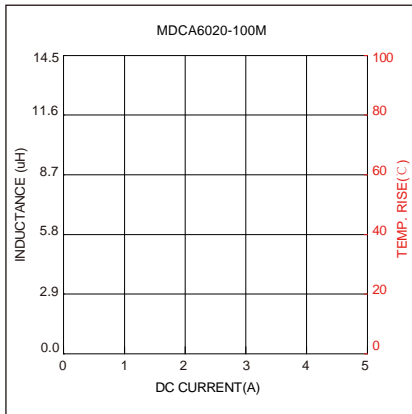
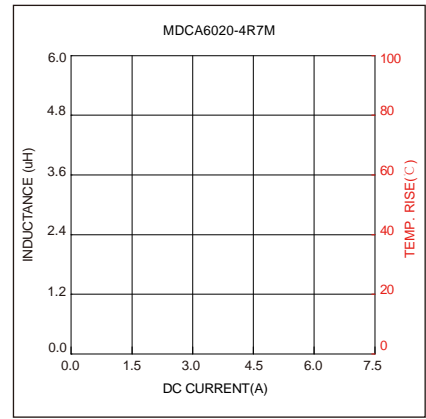
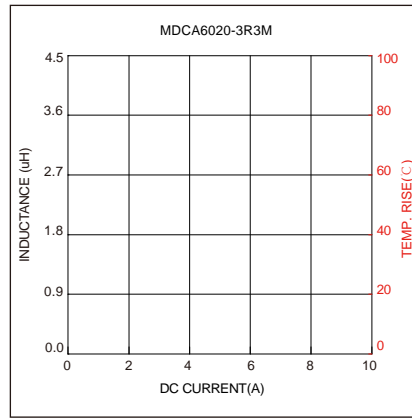
Electrical Properties:

| |
|--|
| |
| |
| |
| |

| Temperature Rise Current (A) | Current (A) | | |
|------------------------------|-------------|------|------|
| 21.0 | | 20 | 24 |
| 18.0 | | 23 | 27 |
| 15.0 | κ | 35 | 40 |
| 14.0 | κ | 45 | 50 |
| 11.7 | κ | 7.1 | 8.3 |
| 11.0 | κ | 7.9 | 9.3 |
| 10.5 | κ | 8.3 | 10.0 |
| 8.0 | κ | 16.5 | 18.0 |
| 7.0 | κ | 23.0 | 27.0 |
| 6.0 | κ | 32.0 | 37.0 |

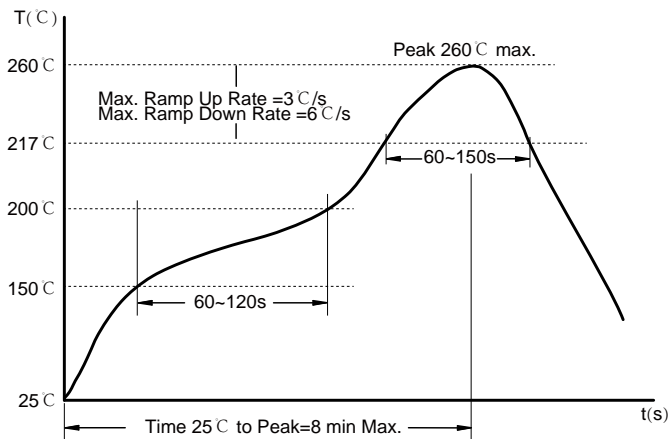
| Part No | Inductance @ 100KHz/1V | Tolerance | | | | |
|---------------|------------------------|-----------|-----|-----|--|-----|
| | 10.0 | | 2.8 | 4.0 | | 154 |
| MDCA6020-150M | 15.0 | | 2.1 | 3.3 | | |
| | 22.0 | | 1.5 | 2.5 | | |





4.6 0 1 78 929.61 6.44365 cm 0 0 m 0 0 ISQq 1Qq 1 0 0 1 192.8622 316.4365 cm 0 0 m 0 2.666 ISQq 1 0 0 1

Soldering Reflow:



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

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

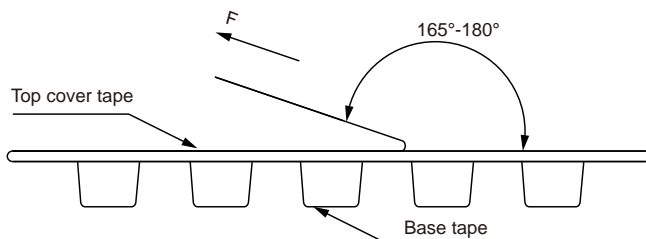
Max temperature: 260°C .

Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension :

Peel force of top cover tape:

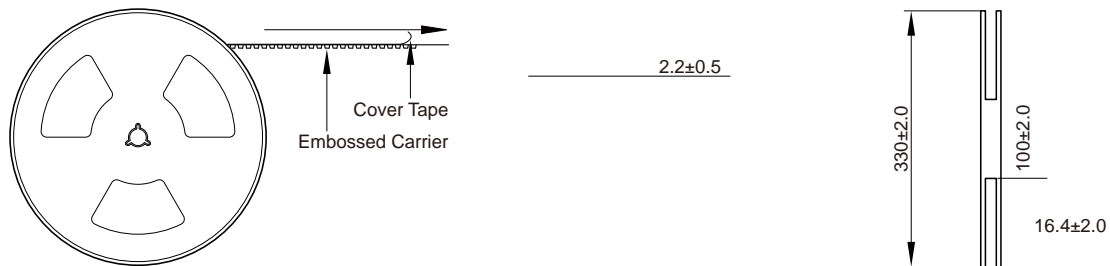


The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

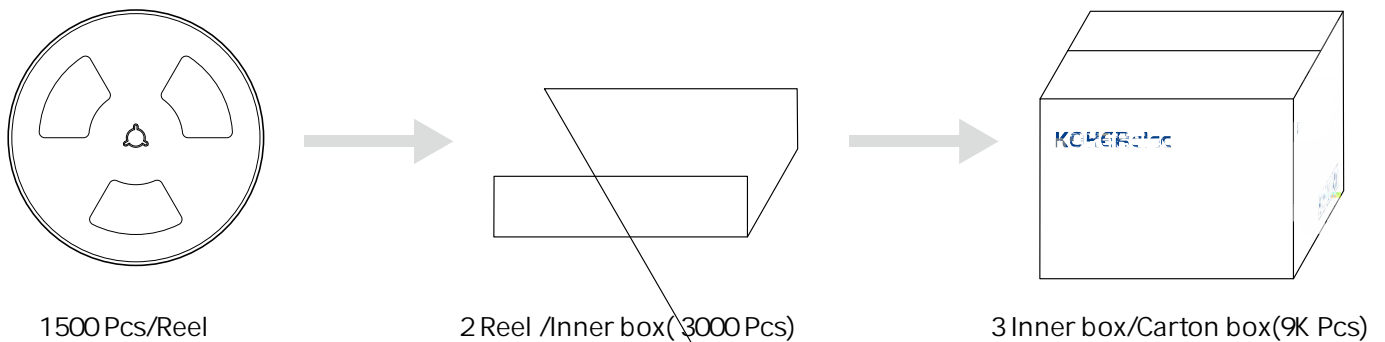
| | |
|---------|-----------------------------|
| Marking | Printing Inductance+period) |
|---------|-----------------------------|

Reel Dimension: [mm]



Packaging Quantity:

021-34753367 Contact@hergroup.com
F9, No. 1188, 105th Rd, Miraflores District,



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.