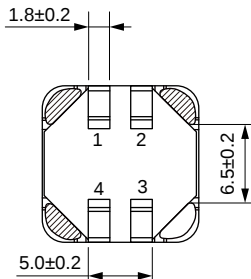
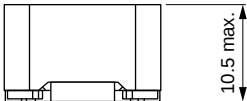
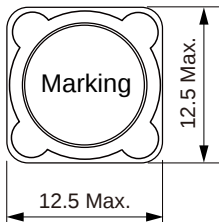


# SMD Shielded Power Inductor Size 1210

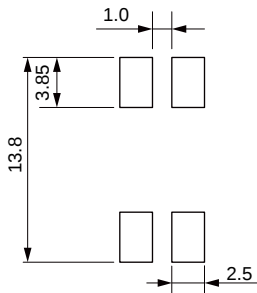


.....

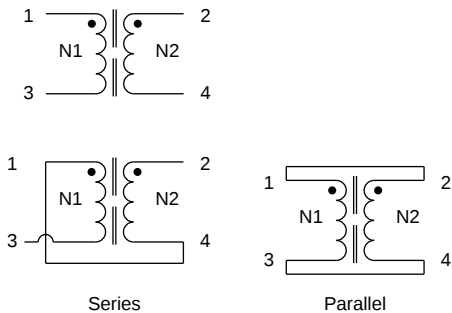
## Dimensions: [mm]



## Land Patterns: [mm]



## Schematic:



## Electrical Properties:

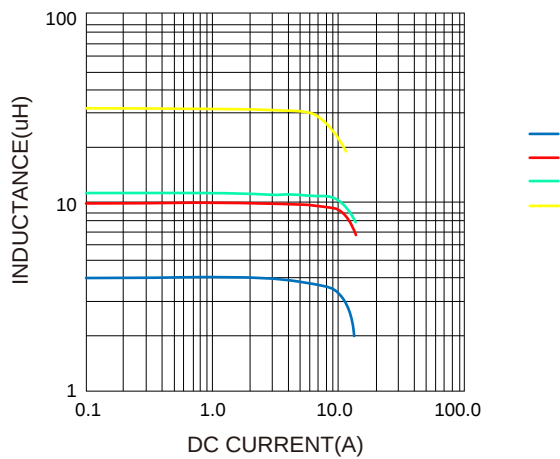
|  | ( $\mu\text{H}$ ) |  | (A) | Satura on<br>(A) | Satura on<br>(A) | (m $\Omega$ ) |  |
|--|-------------------|--|-----|------------------|------------------|---------------|--|
|  |                   |  |     |                  |                  |               |  |
|  |                   |  |     |                  |                  |               |  |
|  |                   |  |     |                  |                  |               |  |
|  |                   |  |     |                  |                  |               |  |

Saturation Current will cause L to drop approximately 30%

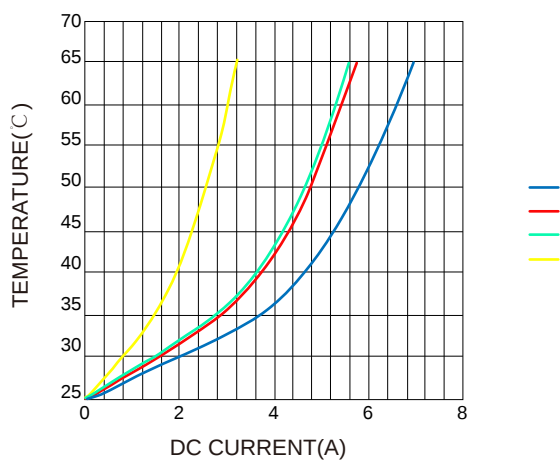
Temperature Rise Current: The actual value of DC current when the temperature rise is  $\Delta T = 40^\circ\text{C}$

## Typical Electrical Characteristics:

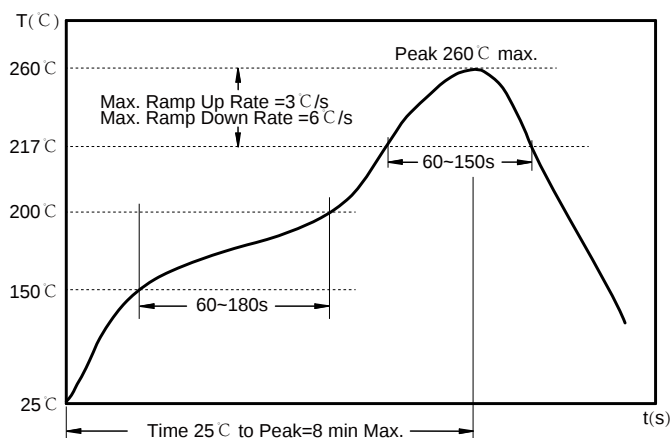
Inductance VS. DC Current Characteristics:



Temperature VS. DC Current Characteristics:



## Soldering Reflow:



Preheat condition: 150 ~200°C / 60~180 sec.

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

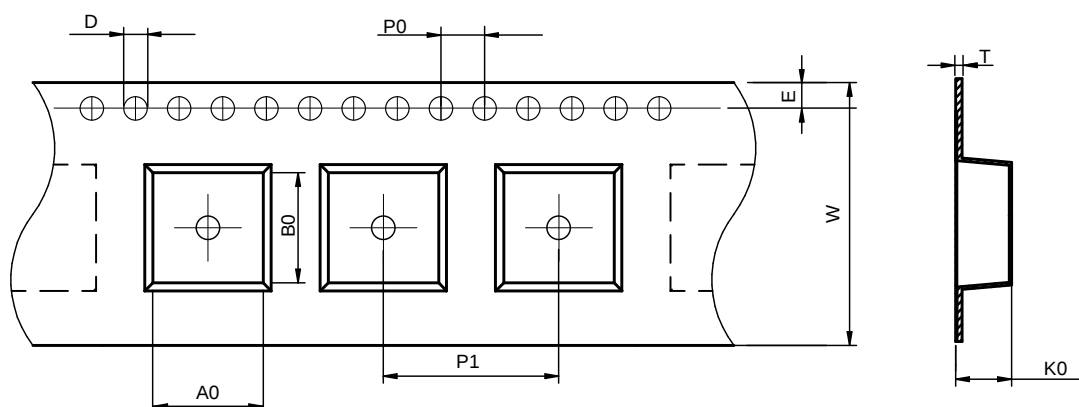
Max temperature: 260°C.

Max time at max temperature: 5 sec.

Allowed Reflow time: 3x max.

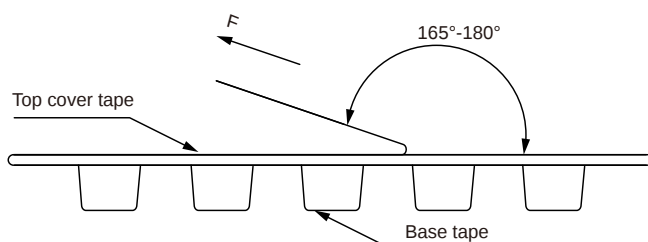
## Packaging Information:

### Tape Dimension:



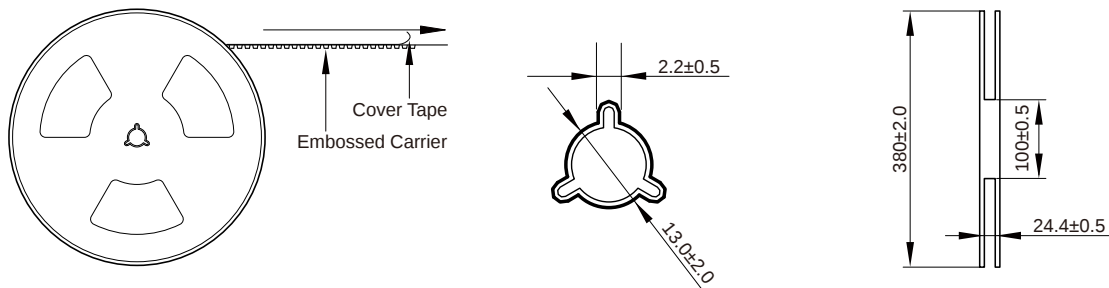
| Series   | A0<br>(mm) | B0<br>(mm) | D<br>(mm) | P0<br>(mm) | P1<br>(mm) | W<br>(mm) | K0<br>(mm) | E<br>(mm) | T<br>(mm) |
|----------|------------|------------|-----------|------------|------------|-----------|------------|-----------|-----------|
| SDDA1210 | 12.5±0.1   | 12.5±0.1   | 1.5±0.1   | 4.0±0.1    | 20.0±0.1   | 24.0±0.3  | 11.05±0.1  | 1.75±0.1  | 0.50±0.05 |

### Peel force of top cover tape:

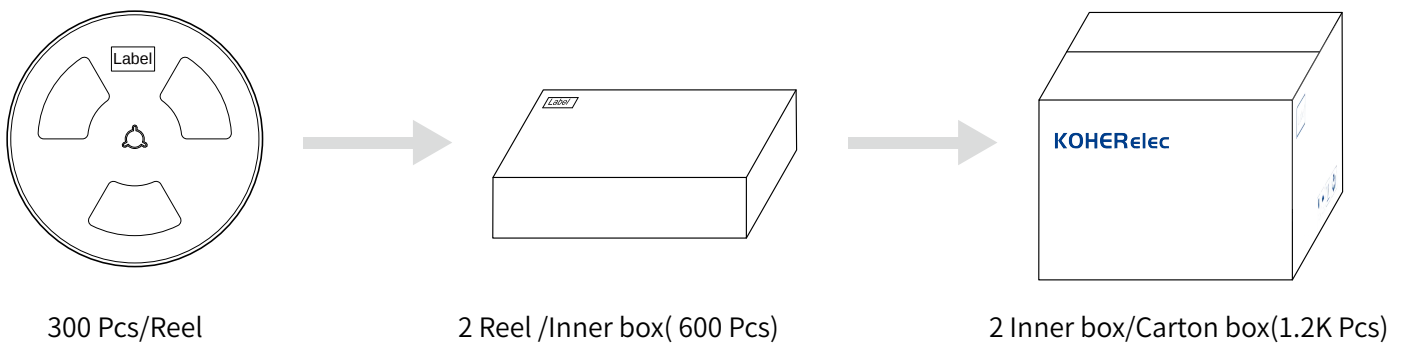


The peel force of top cover tape shall be between 0.1 to 1.3 N

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.