

## FBHA Series

### Chip Ferrite Bead High Current Type Size 1206



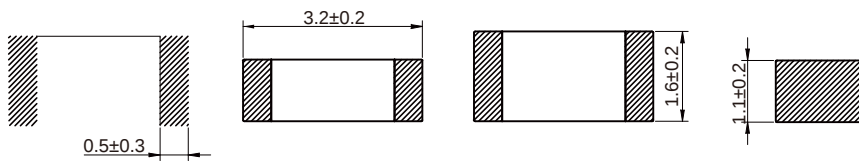
#### FEATURES

- Noise reduction solution for power line.
- Compared to the FBA series, has low direct current resistance for compatibility with large currents, optimal for low power consumption. Various frequency characteristics with 2 materials of different features for countermeasures against everything from general signals to high-speed signals.
- Performs well even in signal lines where low direct current resistance is required.
- AEC-Q200 qualified
- Operating temperature: -55 to +150 °C (including self-temperature rise)
- Quantity: 3000pcs

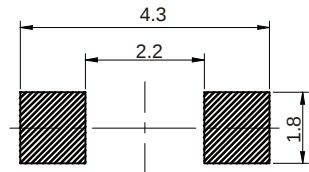
#### APPLICATION

- Power line filter for body controls, and car multimedia etc.

#### Dimensions: [mm]



#### Land Pattern: [mm]

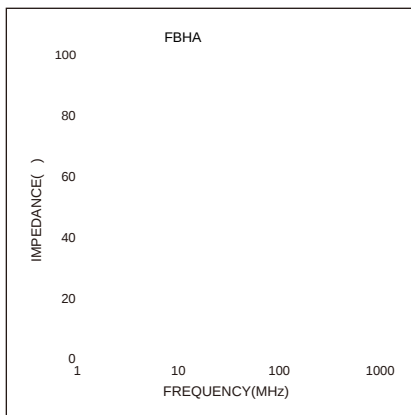
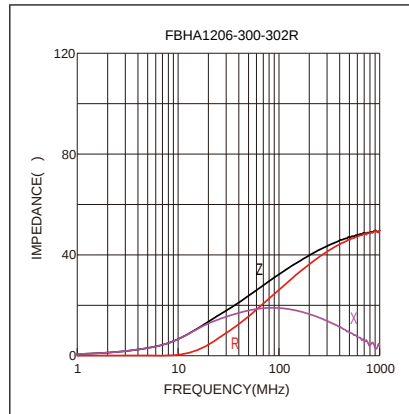
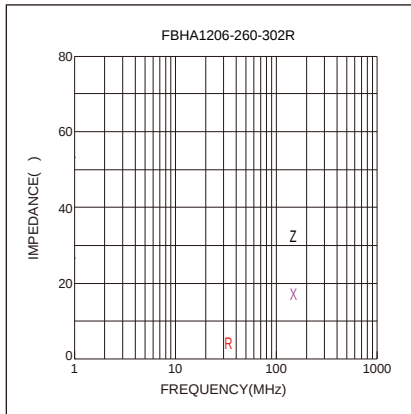


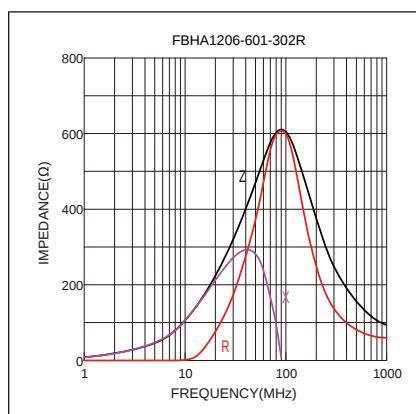
#### Electrical Properties:

|                   | (Ω) |       | (Ω)  | (mA) |
|-------------------|-----|-------|------|------|
| FBHA1206-260-302R | 26  | ±25 % | 0.04 | 3000 |
| FBHA1206-300-302R | 30  | ±25 % | 0.04 | 3000 |
| FBHA1206-330-602R | 33  | ±25 % | 0.01 | 6000 |
| FBHA1206-500-302R | 50  | ±25 % | 0.04 | 3000 |
| FBHA1206-800-302R | 80  | ±25 % | 0.04 | 3000 |
| FBHA1206-121-202R | 120 | ±25 % | 0.10 | 2000 |
| FBHA1206-121-302R | 120 | ±25 % | 0.04 | 3000 |
| FBHA1206-151-202R | 150 | ±25 % | 0.10 | 2000 |
| FBHA1206-301-102R | 300 | ±25 % | 0.20 | 1000 |
| FBHA1206-471-102R | 470 | ±25 % | 0.20 | 1000 |
| FBHA1206-501-302R | 500 | ±25 % | 0.04 | 3000 |
| FBHA1206-601-202R | 600 | ±25 % | 0.10 | 2000 |
| FBHA1206-601-302R | 600 | ±25 % | 0.04 | 3000 |

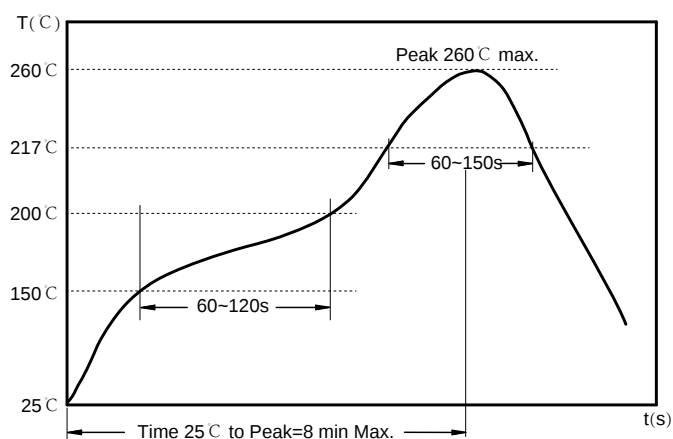
$I_R$  referring to 40K self-heating above ambient temperature

## 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.

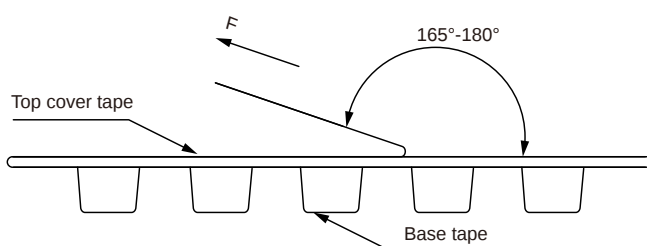
## Packaging Information:

### Tape Dimension:



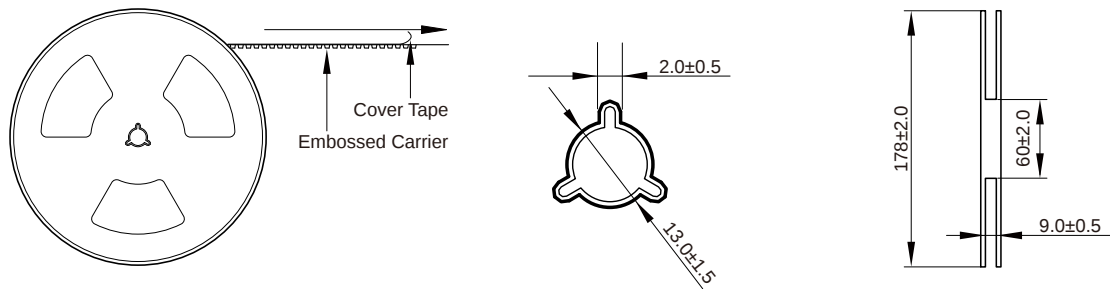
| Series   | A0<br>(mm) | B0<br>(mm) | D<br>(mm) | P0<br>(mm) | P1<br>(mm) | W<br>(mm) | K0<br>(mm) | E<br>(mm)  | T<br>(mm)   |
|----------|------------|------------|-----------|------------|------------|-----------|------------|------------|-------------|
| FBHA1206 | 1.75 ± 0.1 | 3.35 ± 0.1 | 1.5 ± 0.1 | 4.0 ± 0.1  | 4.0 ± 0.1  | 8.0 ± 0.3 | 1.25 ± 0.1 | 1.75 ± 0.1 | 0.23 ± 0.05 |

### Peel force of top cover tape:

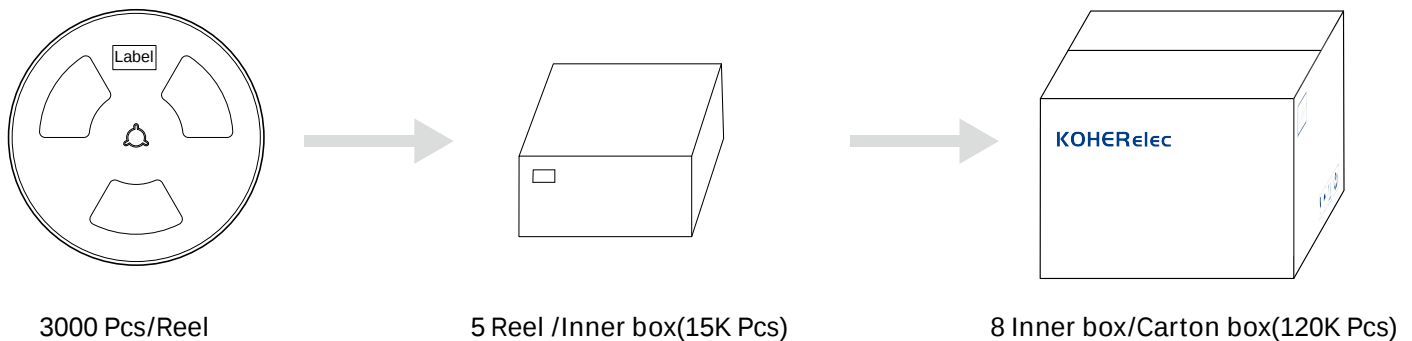


The peel force of top cover tape shall be between 0.14 to 0.58 N

## 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.