

## FBHA Series

Chip Ferrite Bead High Current Type  
Size 1806



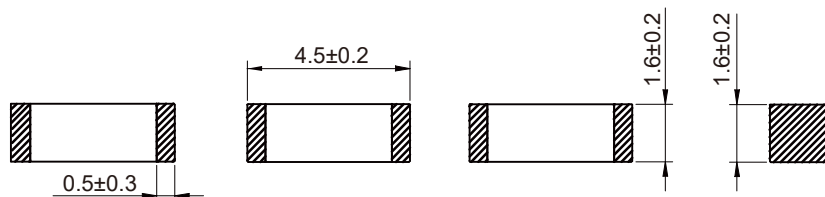
### FEATURES

- 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: 2000pcs

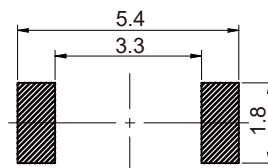
### APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]

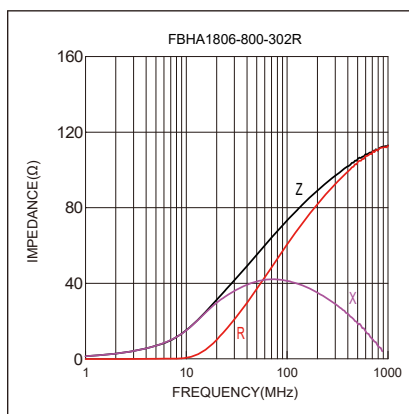
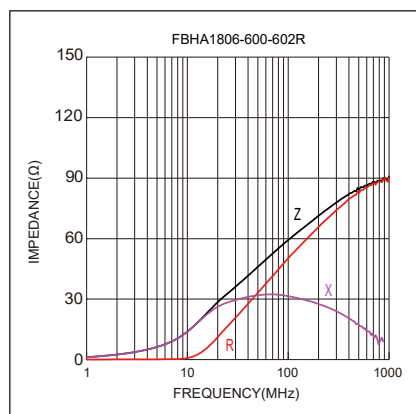


Electrical Properties:

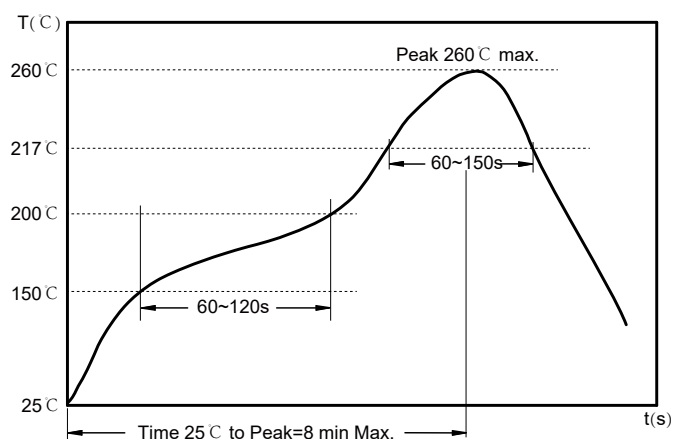
Part No	Z @ 100 MHz (Ω)	Tolerance	R <sub>DC</sub> (Ω)	I <sub>R</sub> (mA)
FBHA1806-600-602R	60	±25%	0.01	6000
FBHA1806-800-302R	80	±25%	0.04	3000

I<sub>R</sub> referring to 40K self-heating above ambient temperature

Typical Electrical Characteristics:



## Soldering Reflow:



Preheat condition: 150 ~200  $^{\circ}\text{C}$  / 60~120 sec.

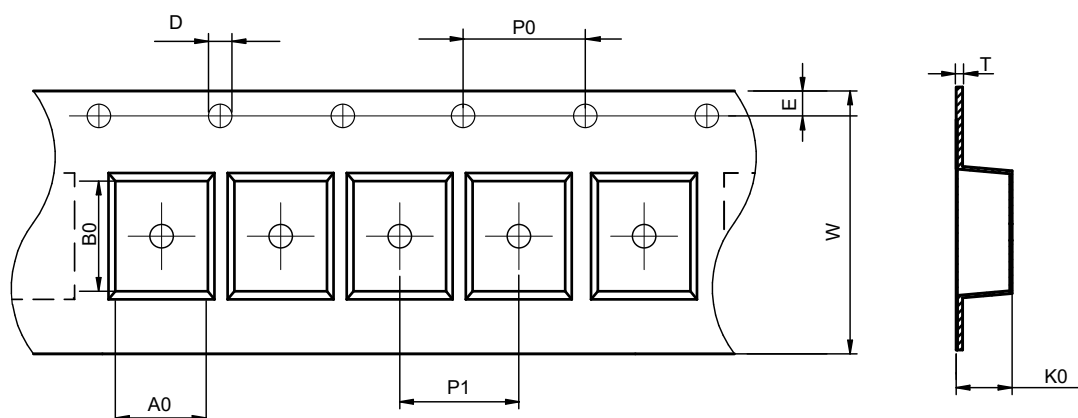
Allowed time above 217  $^{\circ}\text{C}$ : 60~150 sec.

Max temperature: 260  $^{\circ}\text{C}$ .

Allowed Reflow time: 3x max.

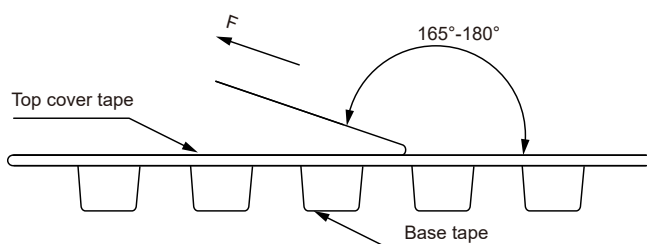
## Packaging Information:

### Tape Dimension:



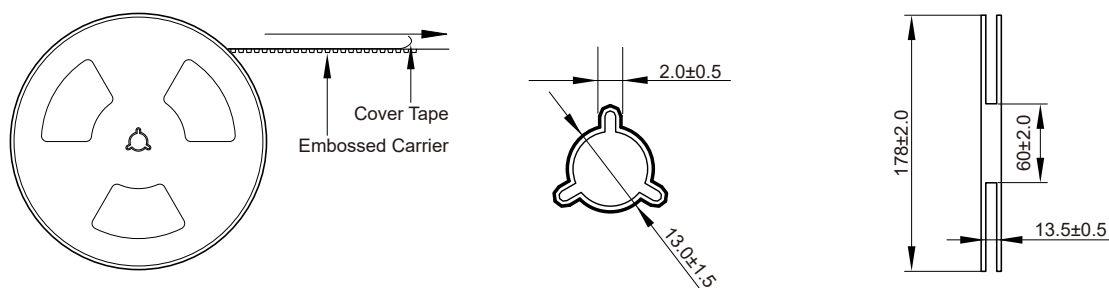
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
FBHA1806	$1.75 \pm 0.1$	$4.70 \pm 0.1$	$1.5 \pm 0.1$	$4.0 \pm 0.1$	$4.0 \pm 0.1$	$12.0 \pm 0.1$	$1.75 \pm 0.1$	$1.75 \pm 0.1$	$0.24 \pm 0.05$

### Peel force of top cover tape:

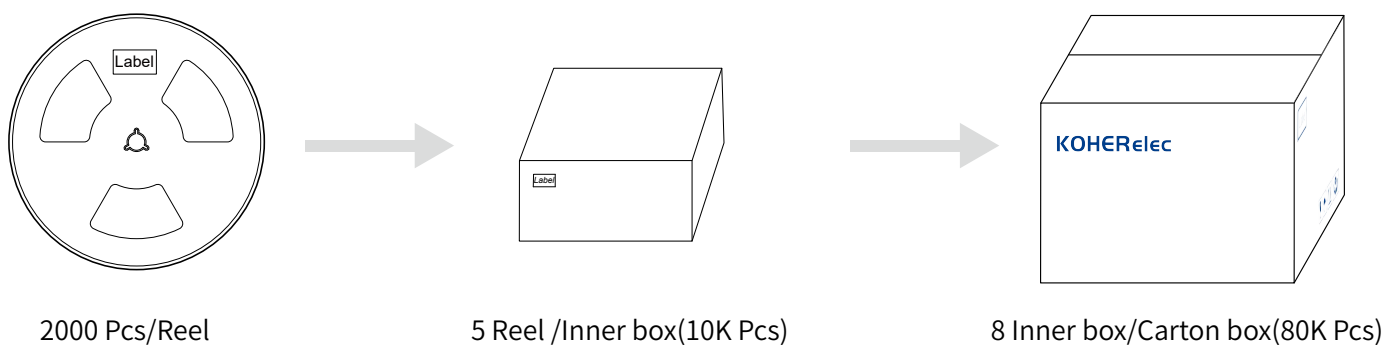


The peel force of top cover tape shall be between 0.14 to 0.58 N

## 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  $35^{\circ}\text{C}$ , 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  $150^{\circ}\text{C}$ .
- 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.