

# FBHE Series

## Chip Ferrite Bead High Current Type

### Size 0805



#### CHARACTERISTICS

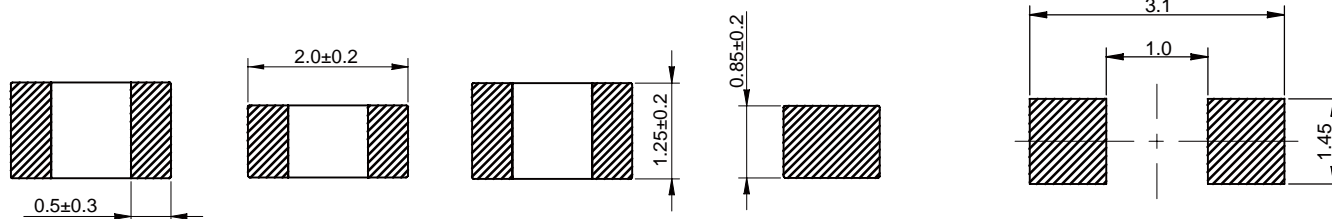
Monolithic inorganic material construction.  
 Closed magnetic circuit avoids crosstalk.  
 Suitable for reflow soldering.  
 Available in various sizes.  
 Quantity: 4000pcs

#### APPLICATION

Data lines and low power lines  
 Connection between digital and analog circuit

Dimensions: [mm]

Land Pattern: [mm]



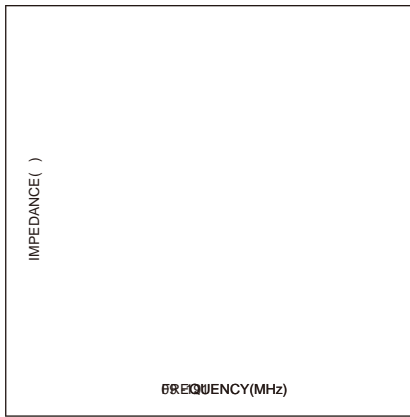
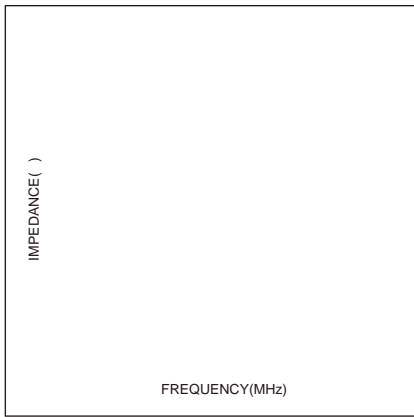
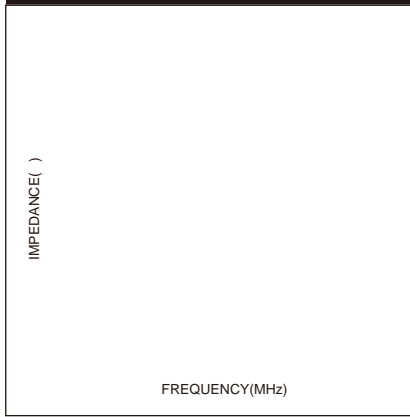
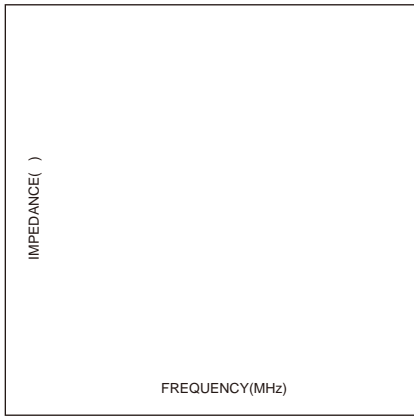
Electrical Properties:

| Part Number       | Impedance<br>( $f_l$ ) | Test Frequency<br>(MHz) | DC Resistance<br>( $f_l$ )max. | Rated Current<br>(mA)max. |
|-------------------|------------------------|-------------------------|--------------------------------|---------------------------|
| FBHE0805-300-302R | 30±25%                 | 100                     | 0.04                           | 3000                      |
| FBHE0805-300-602R | 30±25%                 | 100                     | 0.01                           | 6000                      |
| FBHE0805-600-402R | 60±25%                 | 100                     | 0.03                           | 4000                      |
| FBHE0805-800-302R | 80±25%                 | 100                     | 0.04                           | 3000                      |
| FBHE0805-121-202R | 120±25%                | 100                     | 0.10                           | 2000                      |
| FBHE0805-121-402R | 120±25%                | 100                     | 0.02                           | 4000                      |
| FBHE0805-151-202R | 150±25%                | 100                     | 0.10                           | 2000                      |
| FBHE0805-221-202R | 220±25%                | 100                     | 0.10                           | 2000                      |
| FBHE0805-601-202R | 600±25%                | 100                     | 0.10                           | 2000                      |
| FBHE0805-301-102R | 300±25%                | 100                     | 0.20                           | 1000                      |
| FBHE0805-471-102R | 470±25%                | 100                     | 0.20                           | 1000                      |
| FBHE0805-601-102R | 600±25%                | 100                     | 0.20                           | 1000                      |

Operating Temperature: -55 ~ +125

Temperature rise current the actual value of DC current when the temperature rise is  $T+40$

# Typical Electrical Characteristics



IMPEDANCE ( ) FREQUENCY (MHz) 7047815 09 -151



## Soldering Reflow:

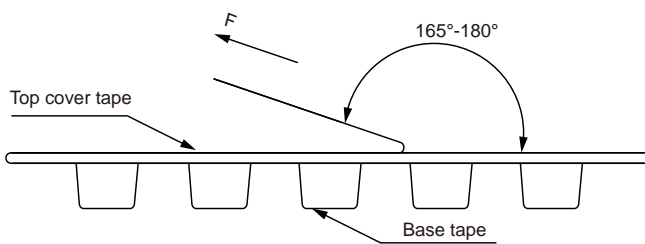
## Packaging Information:

Tape Dimension :



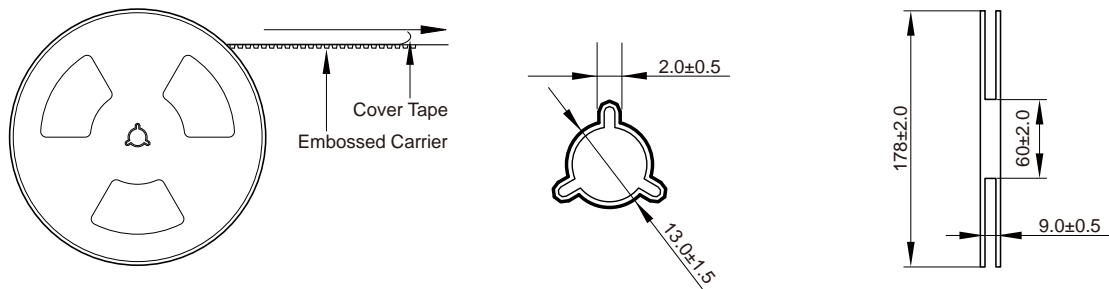
| Series | A0 (mm)     | B0 (mm)    | D (mm)       | P0 (mm)     | P1 (mm)     | W (mm)        | K0 (mm)       | E (mm)      | T (mm)            |
|--------|-------------|------------|--------------|-------------|-------------|---------------|---------------|-------------|-------------------|
| " * "  | # 2 / f " # | \$ # f " # | # 2 f " Z \$ | & Z ' f " # | & Z ' f " # | * Z ' f " Z % | " Z + ' f " # | # Z ' f " # | " Z + ' f " Z ' " |

Peel force of top cover tape:

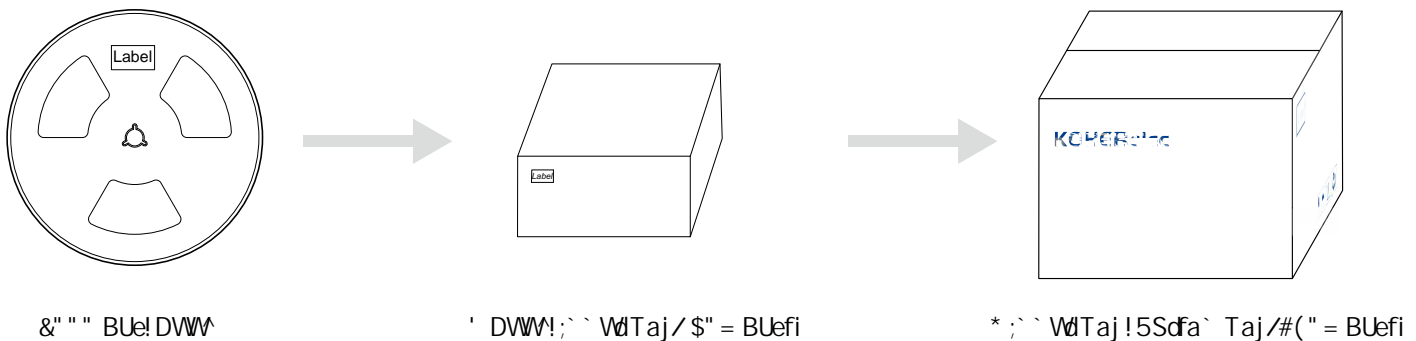


FZ Wb V W X d J W a X f a b U a h W d f S b W e Z S ^ T W T W f i V W V " # & f a " Z \* @

## 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.