

**FBHE S Series**  
**SMD Suppression Ferrite Bead**  
**Size 1206**



**FEATURES**

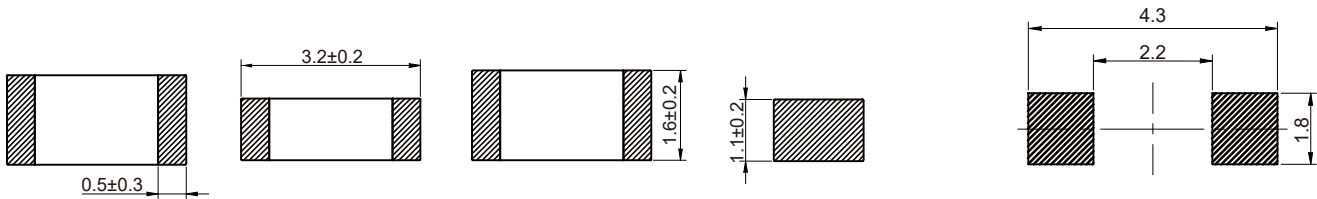
- Monolithic inorganic material construction.
- Closed magnetic circuit avoids crosstalk.
- Suitable for reflow soldering.
- Available in various sizes.
- Operating temperature: -55 to +125 °C(including self-temperature rise)
- Quantity: 3000pcs

**APPLICATION**

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

Dimensions: [mm]

Land Pattern: [mm]

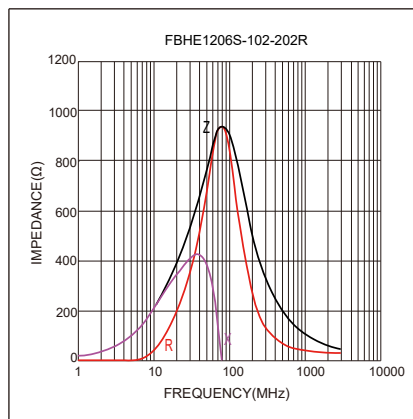
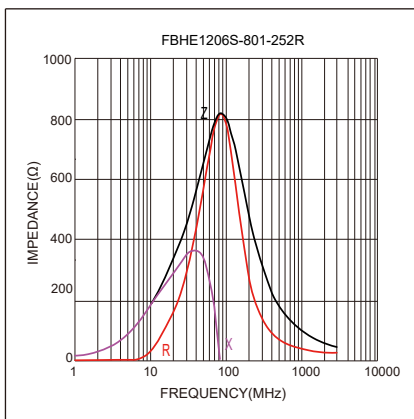
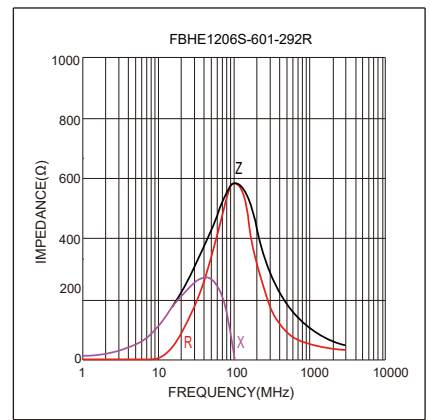
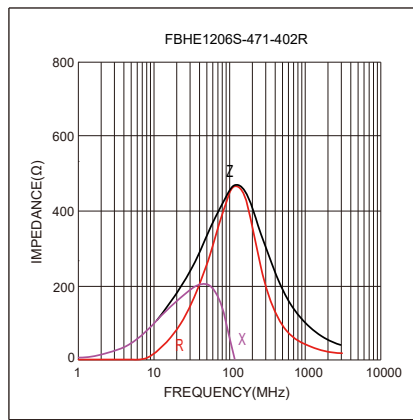
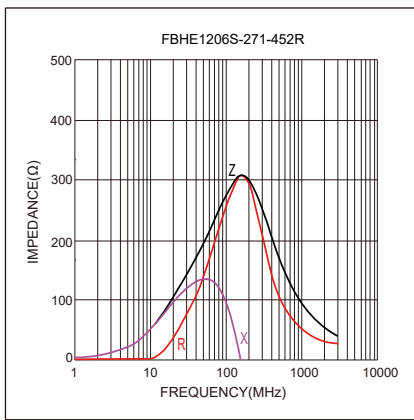
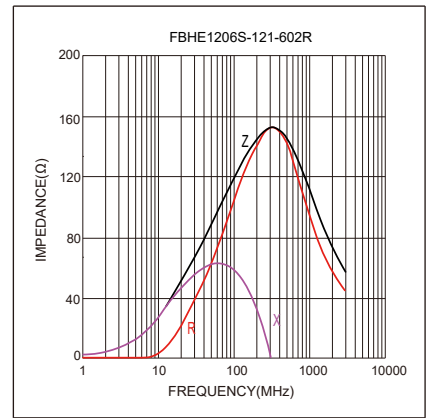
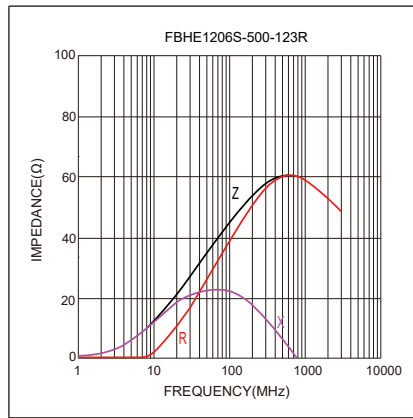
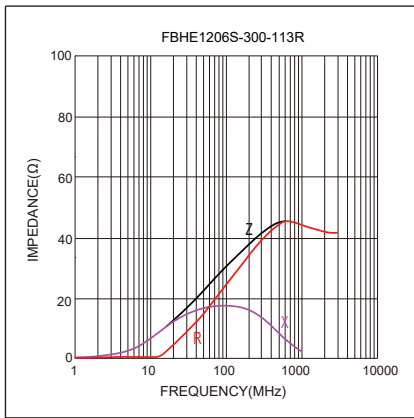


Electrical Properties:

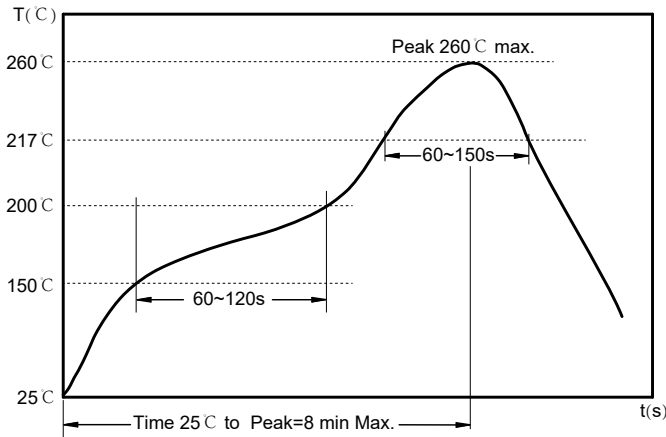
Part No	Impedance @ 100MHz (Ω)	Tolerance	DC Resistance Max. (Ω)	Temperature Rise Current Max. (mA)
FBHE1206S-300-113R	30	±25 %	0.0025	11000
FBHE1206S-500-123R	50	±25 %	0.0025	12000
FBHE1206S-121-602R	120	±25 %	0.0090	6000
FBHE1206S-271-452R	270	±25 %	0.0160	4500
FBHE1206S-471-402R	470	±25 %	0.0200	4000
FBHE1206S-601-292R	600	±25 %	0.0380	2900
FBHE1206S-801-252R	800	±25 %	0.0500	2500
FBHE1206S-102-202R	1000	±25 %	0.0750	2000

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

Typical Electrical Characteristics:



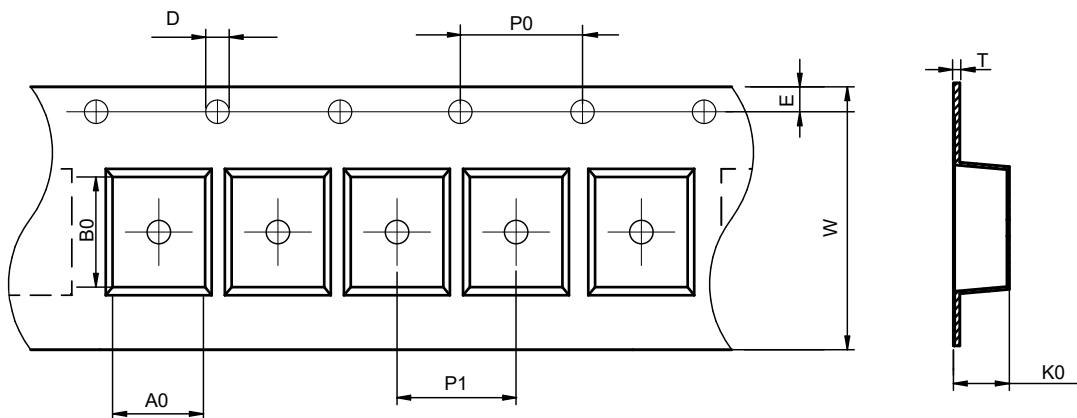
### Soldering Reflow:



Preheat condition: 150 ~200°C / 60~120 sec.  
 Allowed time above 217°C: 60~150 sec.  
 Max temperature: 260°C.

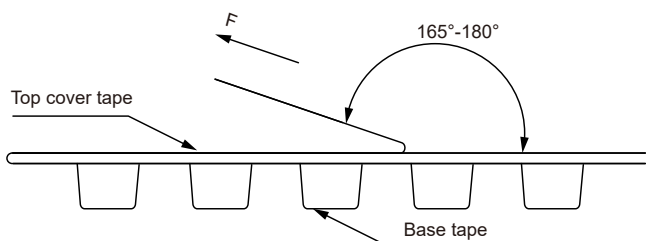
### Packaging Information:

#### Tape Dimension:



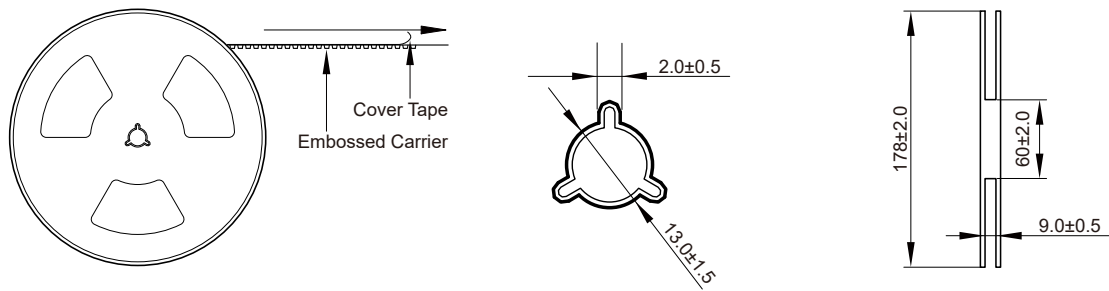
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
FBHE1206S	1.75±0.1	3.35±0.1	1.5±0.1	4.0±0.1	4.0±0.1	8.0±0.3	1.25±0.1	1.75±0.1	0.23±0.05

#### Peel force of top cover tape:

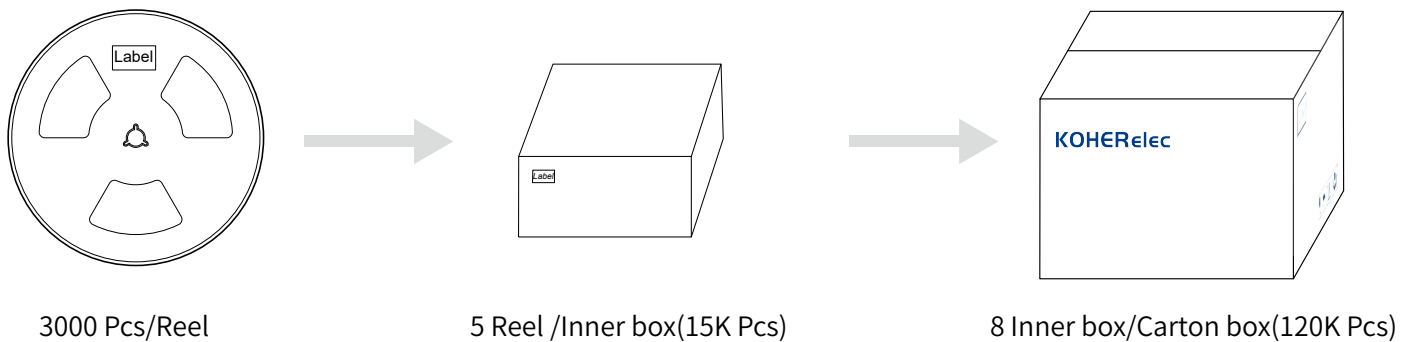


The peel force of top cover tape shall be between 0.14 to 0.58 N

## 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.