FBE Series

SMD EMI Suppression Ferrite Bead
Size 0402

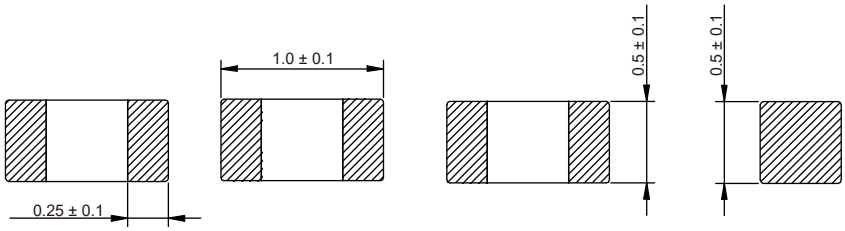
CHARACTERISTICS

- Monolithic inorganic material construction.
- Closed magnetic circuit avoids crosstalk.
- Suitable for reflow soldering.
- Available in various sizes.
- Quantity: 10000pcs

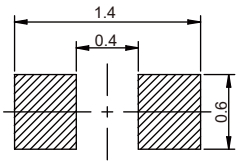
APPLICATION

- 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	DCR (max) (Ω)	Temperature Rise Current (max) (mA)
FBE0402-300-301R	30	±25%	0.20	300
FBE0402-600-101R	60	±25%	0.30	100
FBE0402-600-301R	60	±25%	0.25	300
FBE0402-121-800R	120	±25%	0.45	80
FBE0402-121-101R	120	±25%	0.30	100
FBE0402-151-101R	150	±25%	0.30	100
FBE0402-221-500R	220	±25%	0.60	50
FBE0402-221-101R	220	±25%	0.40	100
FBE0402-301-500R	300	±25%	0.75	50
FBE0402-301-101R	300	±25%	0.50	100
FBE0402-471-101R	470	±25%	0.65	100
FBE0402-601-800R	600	±25%	0.80	80
FBE0402-102-500R	1000	±25%	1.20	50
FBE0402-102-301R	1000	±25%	1.20	300

Operating Temperature: -55℃ ~ +125℃
Temperature rise current the actual value of DC current when the temperature rise is ΔT40℃

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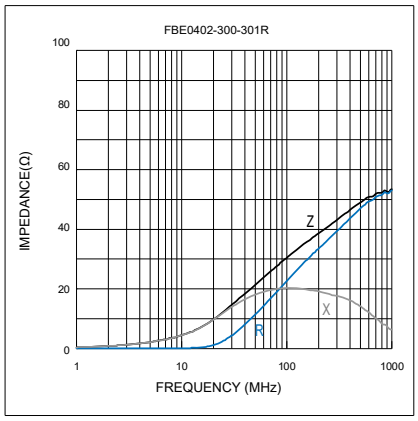
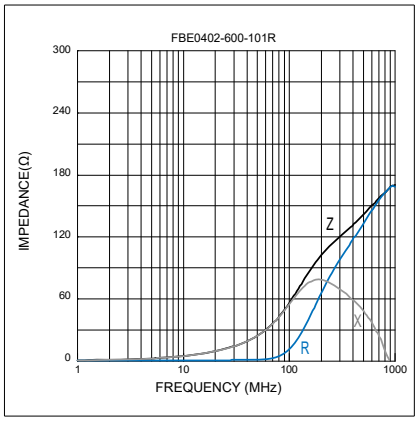
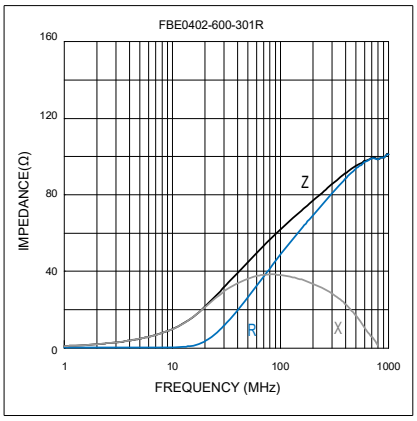
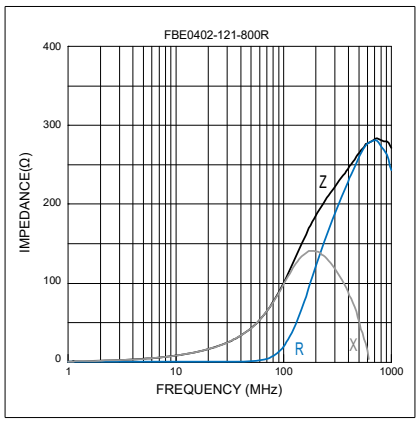
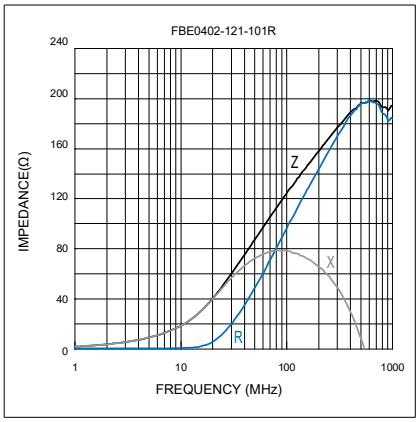
Impedance & Frequency Characteristics:

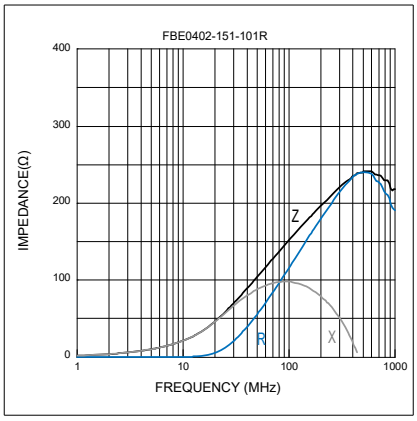


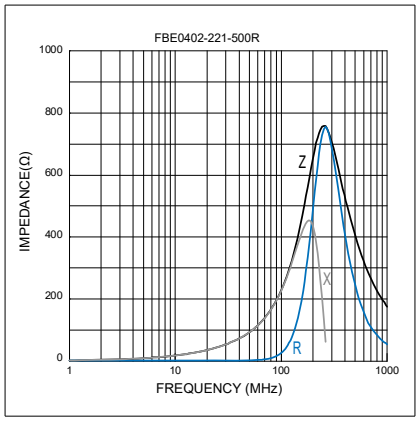


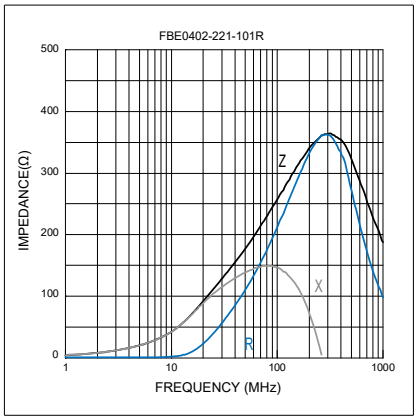


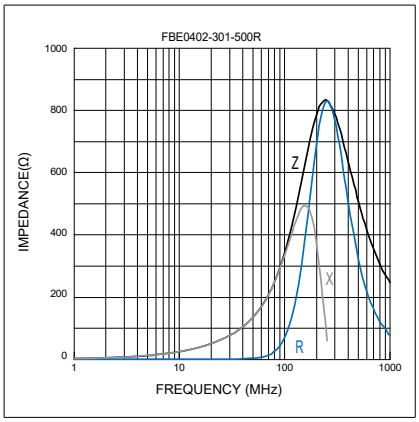


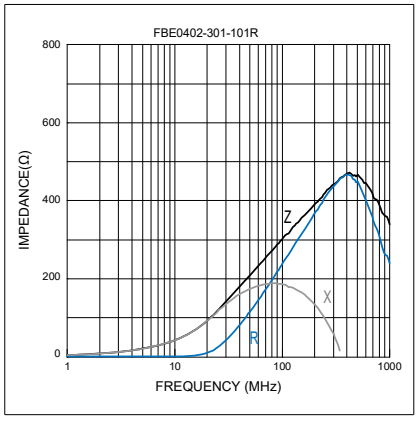


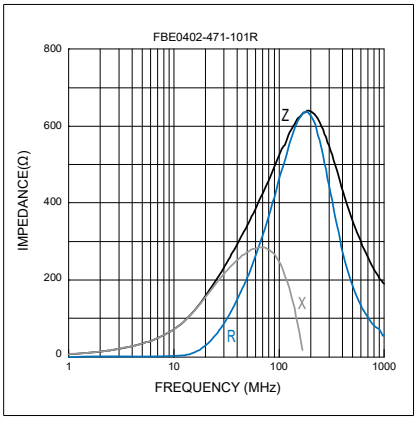


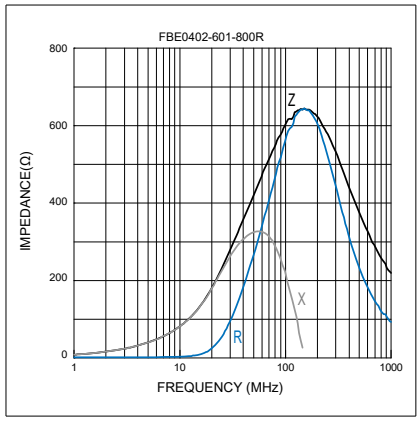












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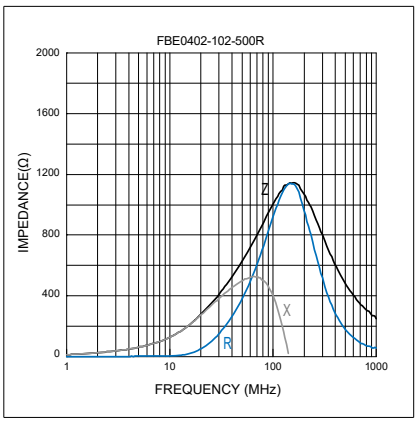

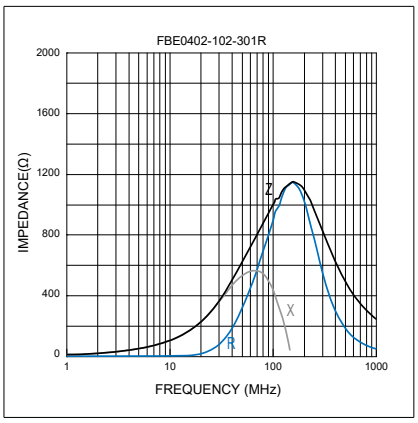

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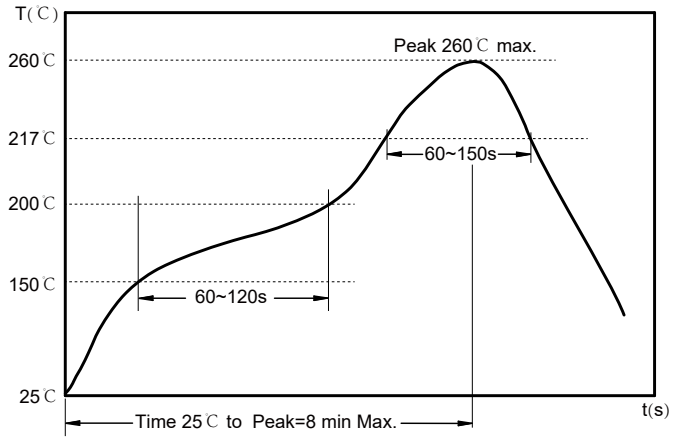
Soldering Reflow:



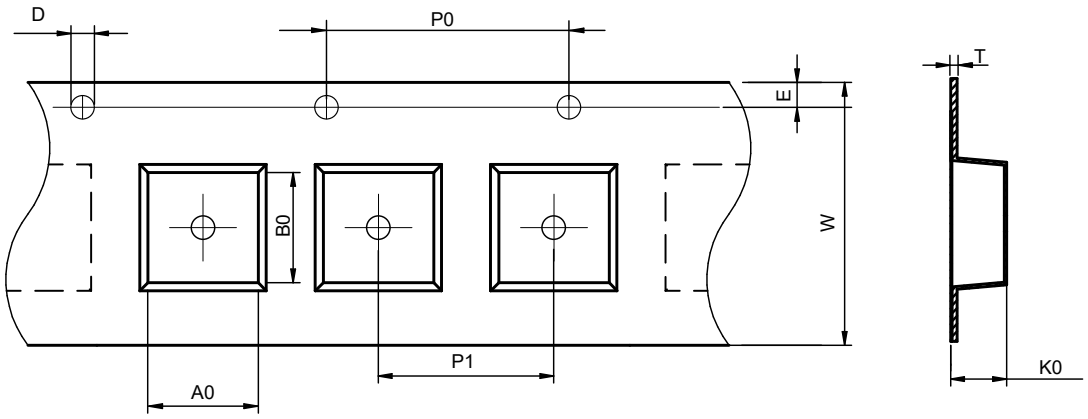
Preheat condition: 150 ~200℃/ 60~120 sec.

Allowed time above 217℃: 60~150 sec.

Max temperature: 260℃.

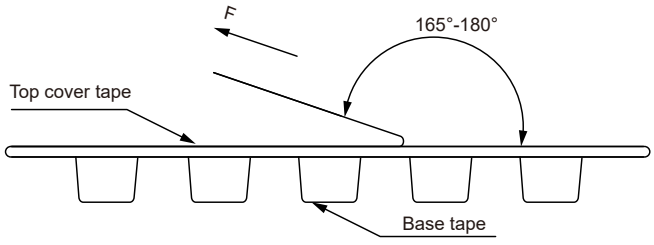
Packaging Information:

Tape Dimension:



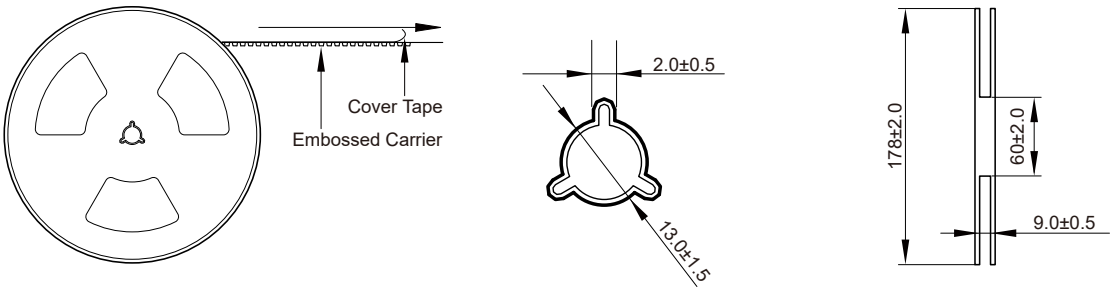
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
FBE0402	0.62±0.03	1.12±0.03	1.5±0.1	4.0±0.1	4.0±0.1	8.0±0.3	0.60±0.03	1.75±0.1	0.60±0.03

Peel force of top cover tape:

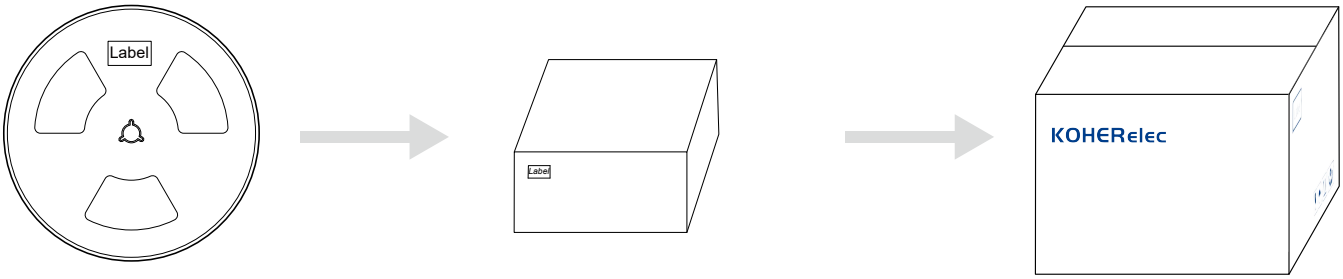


The peel force of top cover tape shall be between 0.14 to 0.58 N

Reel Dimension：[mm]



Packaging Quantity:



10000 Pcs/Reel

5 Reel /Inner box(50K Pcs)

8 Inner box/Carton box(400K Pcs)

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.