

FHC Series

SMD Flat Wire High Current Inductor

Size 1050



CHARACTERISTICS

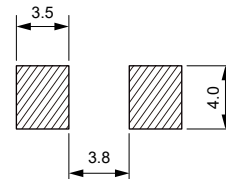
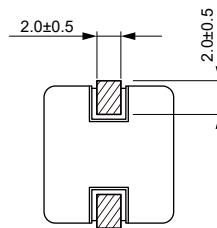
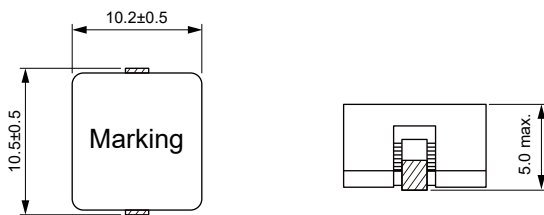
- Low Rdc with flat wire design
- Low copper losses at high frequency
- Magnetic shielded structure
- Operating Temperature : -40 ℃ to +125 ℃
- Meet MSL level1, refer to J-STD-020
- Quantity: 700pcs

APPLICATION

- High current DC/DC converter
- LC filter

Dimensions: [mm]

Land Pattern: [mm]



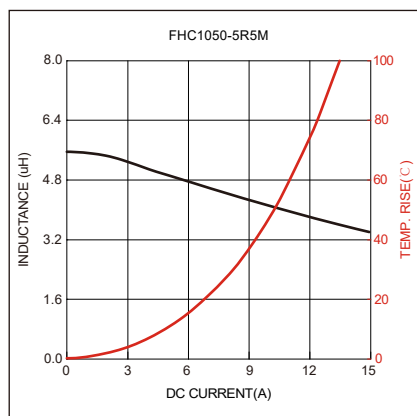
Electrical Properties:

Part No	Inductance @ 100KHz/0.1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
FHC1050-5R5M	5.50	±20%	10.0	12.0	10.3	11.33

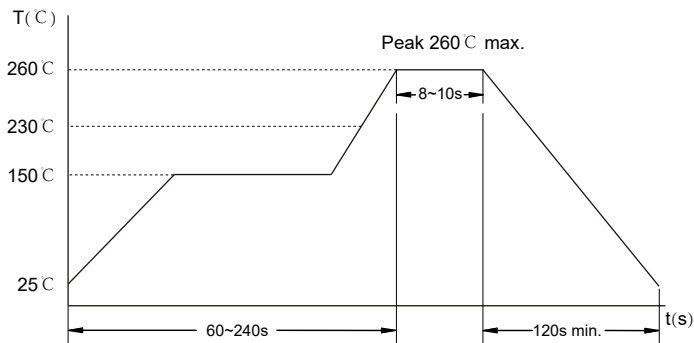
Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=50^{\circ}\text{C}$

Typical Electrical Characteristics:

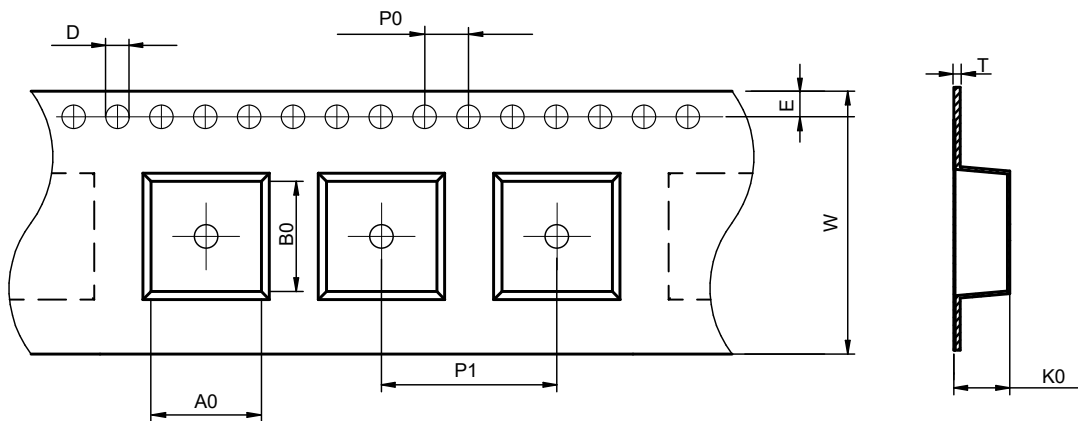


Soldering Reflow:



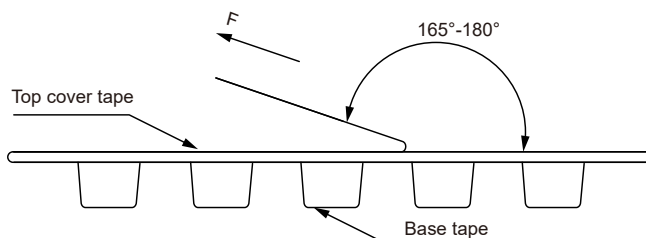
Packaging Information:

Tape Dimension :



A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
10.8±0.1	11.3±0.1	1.5±0.1	4.0±0.1	12.0±0.1	24.0±0.3	5.2±0.1	1.75±0.1	0.4±0.1

Peel force of top cover tape:

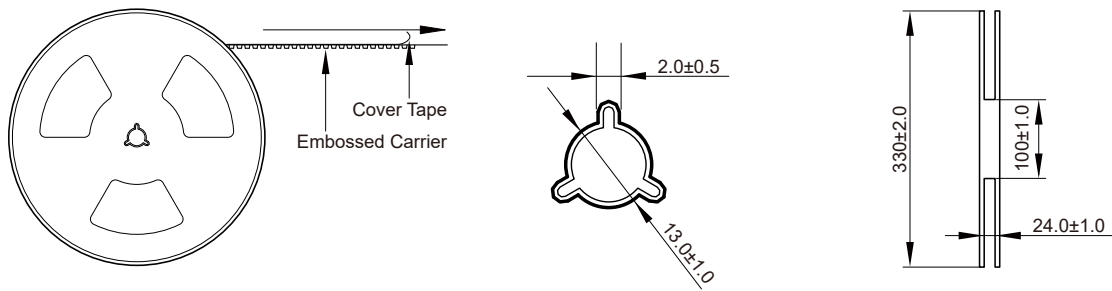


The peel force of top cover tape shall be between 10 to 130 gf

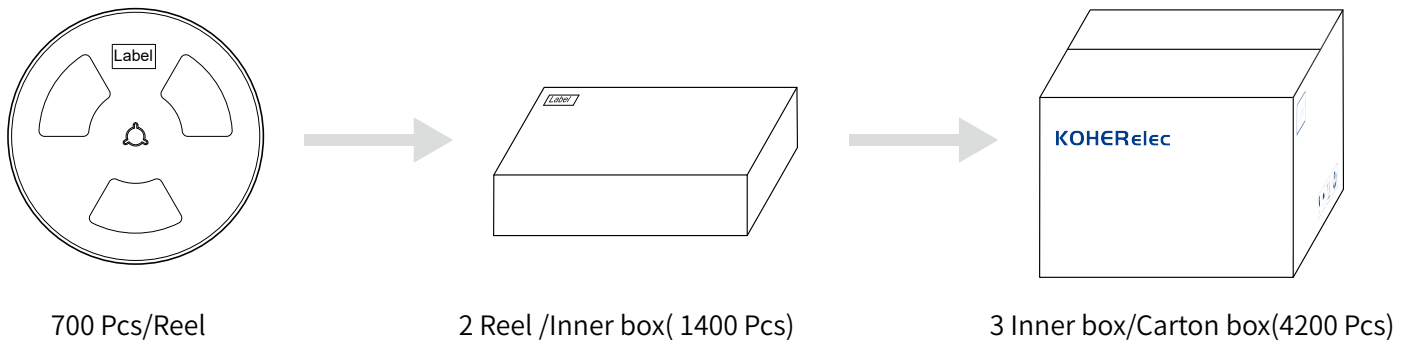
Product Marking:

Marking	Printing (Inductance)
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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.