

DMMA Series

Molded Inductor

Size=1094

FEATURES

- Low loss realized with low DCR
- High performance realized by metal-dust composite
- Ultra low buzz noise due to composite composition (flux "sat. 30" free and "Ro-Su")
- AFC-Q300 certified

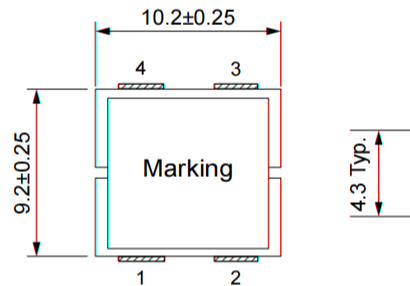
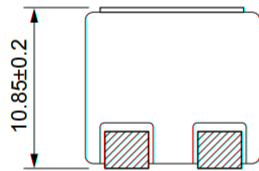
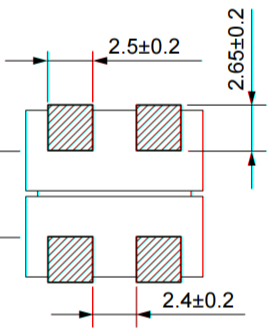
Operating temperature: -55 to +125 °C (including self-temperature rise)

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APPLICATION

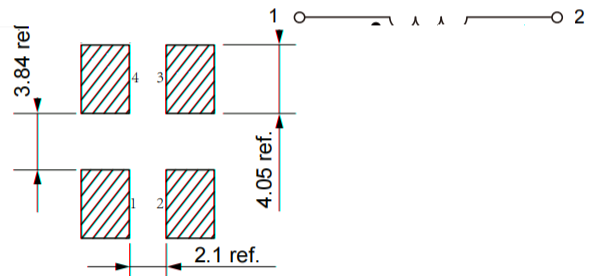
- Automotive applications

Dimensions: [mm]



Land Pattern: [mm]

Schematic:

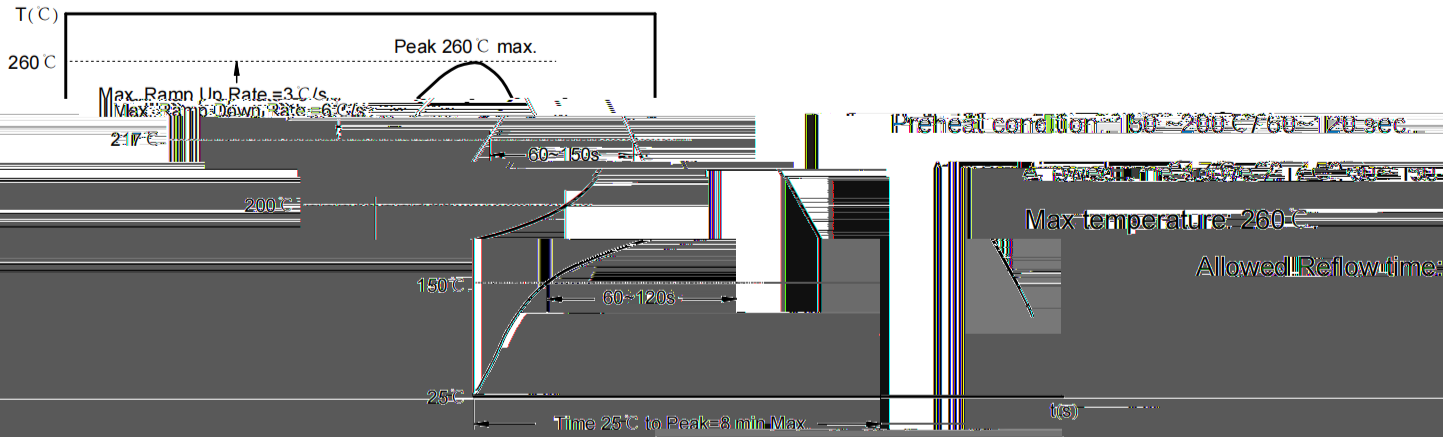


Electrical Properties:

Part No.	Inductance			Temperature	Temperature	Saturation	Saturation	DC	
	Typ. (A)	Max. (A)	Max. (mΩ)	@100kHz/1V	Tolerance	Current (A)	Current (A)	Typ. (A)	Max. (A)
DMMA1094-150M	5.2	12.0	10.0	22.0					
DMMA1094-220M	5.2	12.0	10.0	22.0	±20%	3.6	3.2	8.5	7.3

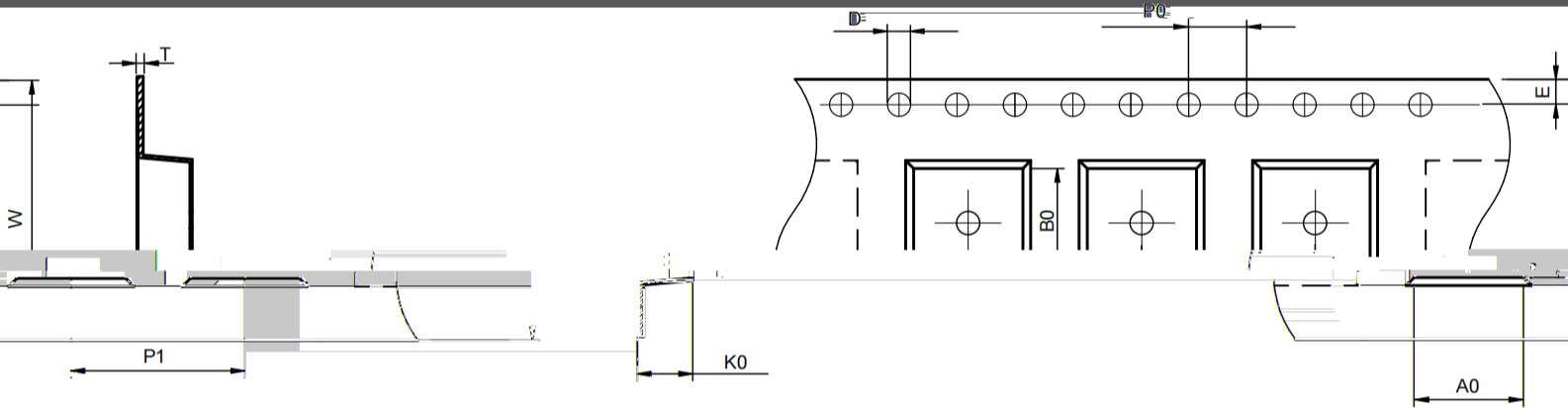
Saturation Current will cause L to drop approximately 30%

Soldering Reflow:



Packaging Information:

Tape Dimension:

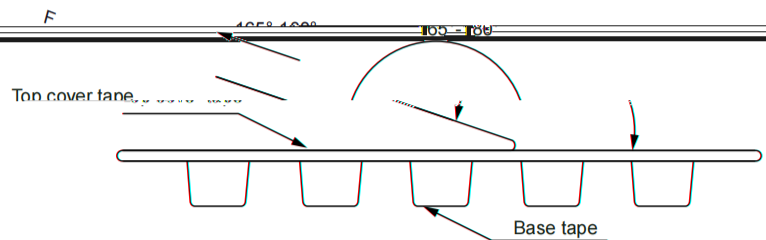


D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
0.6 ± 0.1	0.5 ± 0.1	4.0 ± 0.1	6.0 ± 0.1	4.0 ± 0.3	1.3 ± 0.1	0.9 ± 0.1

Series	A0 (mm)	B0 (mm)
1004	10.4 ± 0.05	6.6 ± 0.05

top cover tape:

Reel force of



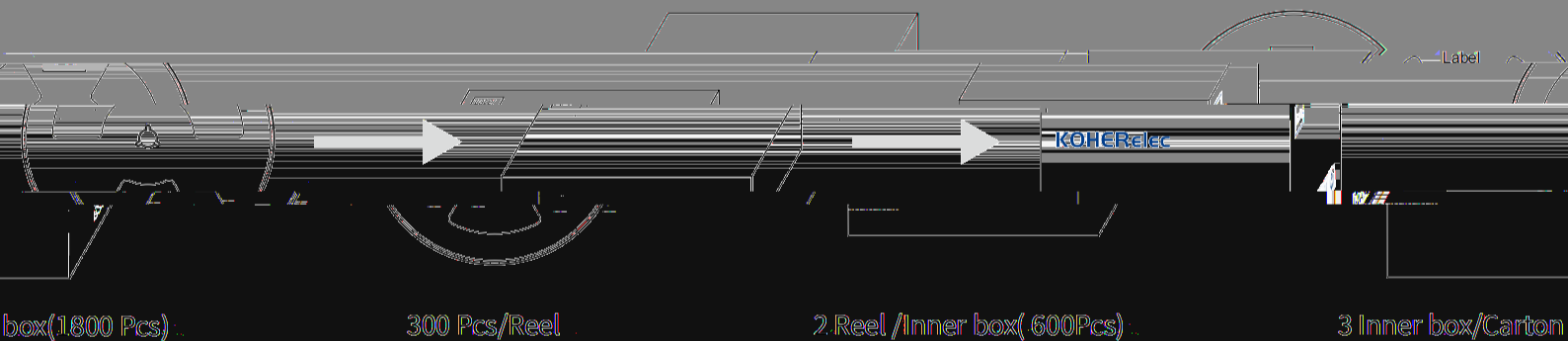
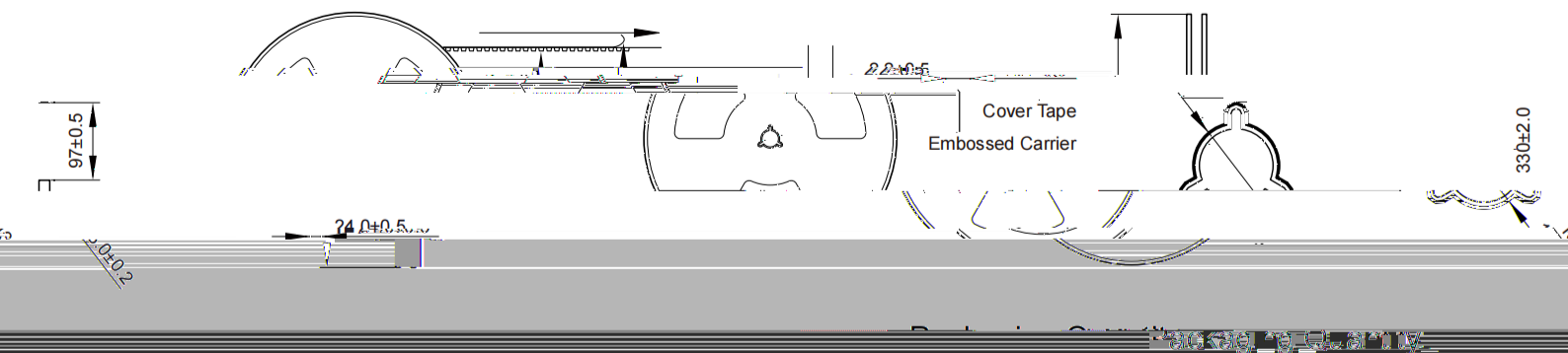
The reel force of top cover tape shall be between 0.1 to 1.2 N.

Product Marking:

Marking

Printing (Inductance)

Reel Dimension: [mm]



Cautions and Warnings:

Storage Conditions:

- Be sure to follow the storage conditions. After a long storage period elapses, the soldering of the terminal electrodes may deteriorate. The warranty period is one year.
- Store in a dry, clean, low humidity, dust, corrosive gas and low temperature environment. Avoid contamination from perspiration and skin oils.
- Do not touch the product with bare hands. Handle by drawing down on the carrier.
- The storage period is within 12 months after the completion of production (temperature: -5 to 35°C, humidity: 75% RH Max). If the storage period exceeds this, 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, etc.
- Products should be handled with care to avoid damage or contamination.
- Please always handle products carefully to prevent any damage or removing.

Operation Instructions:

- When the power is turned ON, so the tolerance should be sufficient.
- Self heating (temperature increase) occurs during operation. Please refer to the thermal design for the set thermal design.
- The recommended temperature should be noted. After use, 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, Kohler might not be familiar with either customer's specific application or actual requests as it does. As a result customer shall be responsible for checking and confirming whether Kohler product will be suitable for the application. Kohler will not be responsible for any damage or loss caused by the use of Kohler products in any application not specified in the specifications.