

DMMA-Series Molded Inductor

Size-1094

FEATURES

Realized with low DCR
Performance realized by metal-dust core
Low buzz noise due to composite construction
±10% (±5% for reel and ESD) compliance
AEC-Q200-qualified

- Low loss
- High performance
- Ultra low

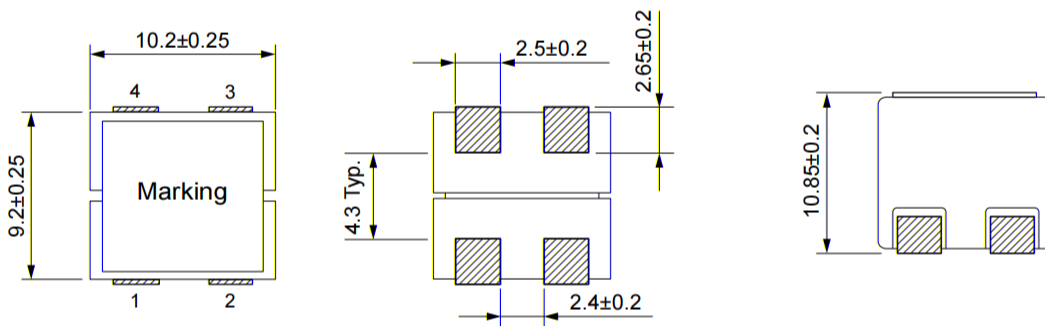
- Operating temperature: -55 to +125 °C (including self-temperature-rise)
- Efficiency: 99.99%



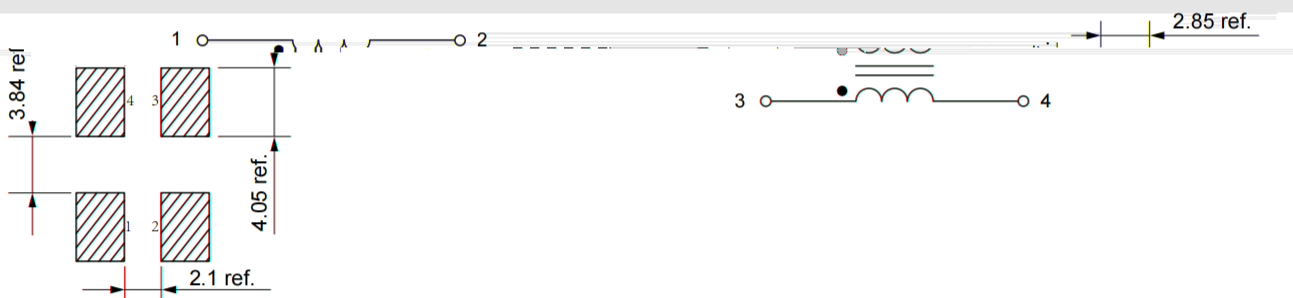
APPLICATION

- Automotive applications

Dimensions: [mm]



SCHEMATIC



Electrical Properties:

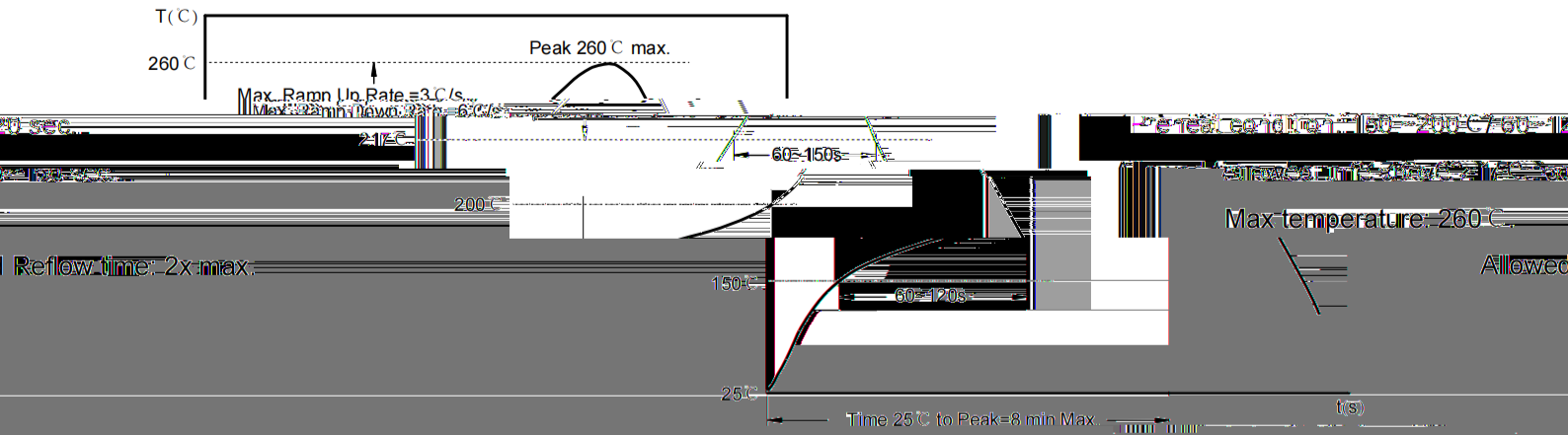
Temperature	Saturation	Saturation	DC	Inductance	Temperature		
Current	Current	Current	Resistance	Typ.	Max.		
(A)	(A)	(A)	(mΩ)	(A)	(A)		
DMMA1094-330M	10.0	±20%	5.8	5.2	12.0	10.0	22.0
DMMA1094-100M	10.0	±20%	5.8	5.2	12.0	10.0	22.0
DMMA1094-150M	10.0	±20%	5.8	5.2	12.0	10.0	22.0
DMMA1094-220M	10.0	±20%	5.8	5.2	12.0	10.0	22.0

to drop approximately 30%

Saturation Current will cause L

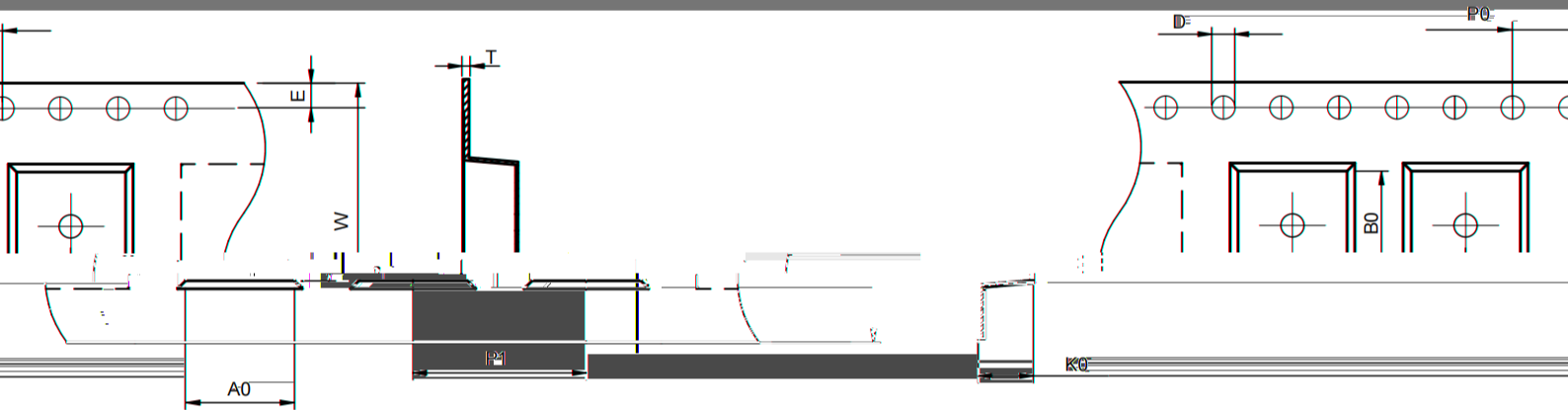
Temperature will cause L

Soldering Reflow:

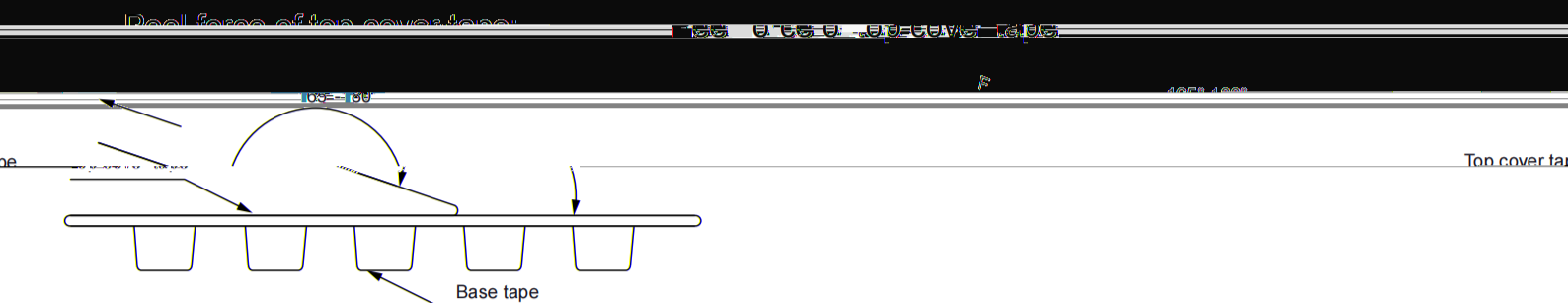


Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MA1004	4.0 ± 0.1	1.6 ± 0.1	1.55 ± 0.1	1.35 ± 0.1	1.4 ± 0.1	2.0 ± 0.2	12.25 ± 0.3	1.75 ± 0.1	0.5 ± 0.05

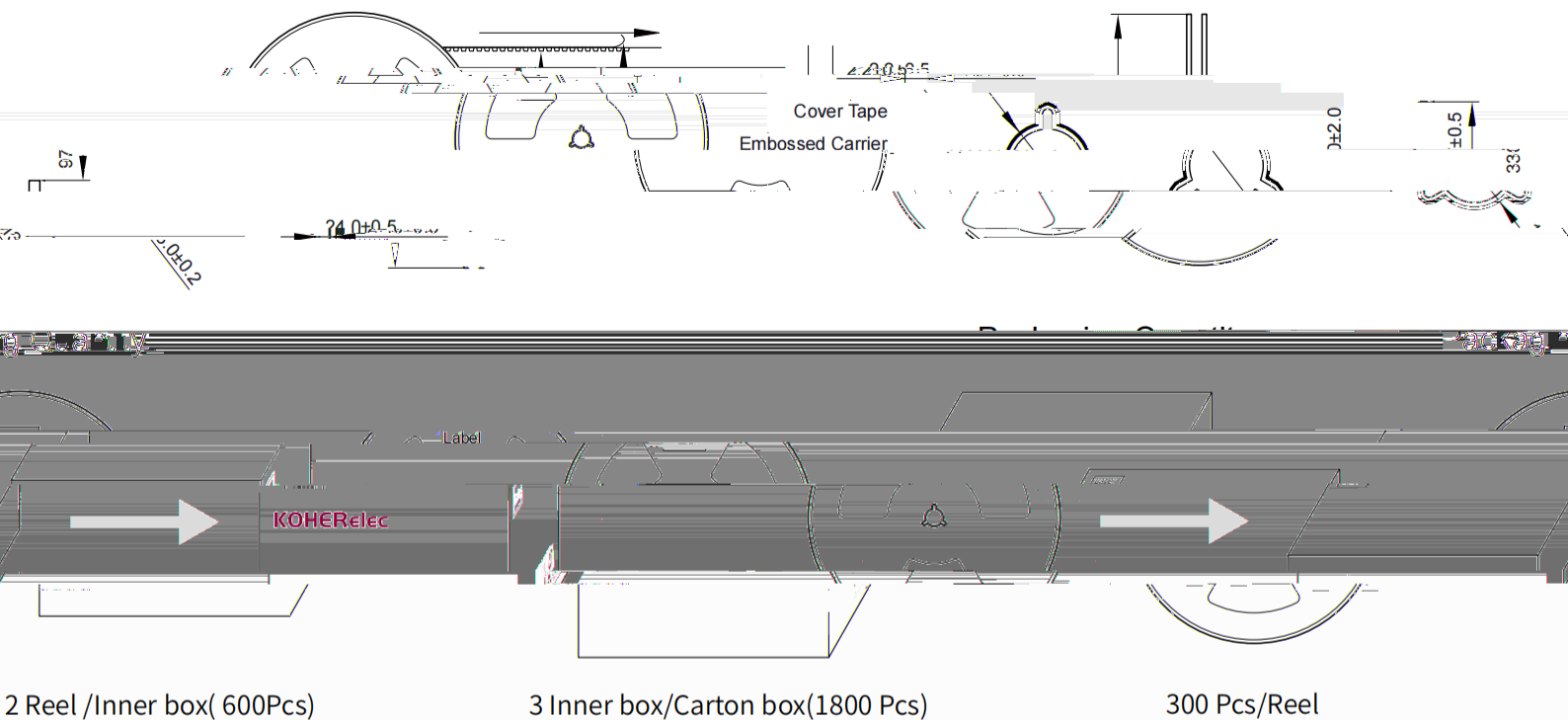


The pull force of top cover tape shall be between 0.1 to 1.2 N.

Product Marking:

Marking	Printing (Inductance)
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Reel Dimension: [mm]



Cautions and Warnings:

Storage Conditions:

months after the completion of production. Be sure to follow the storage conditions: 75% RH Min. If the storage period elapses, the soldering of the terminal electrodes may deteriorate. The warranty period is one year.

The storage period is within 12 months (temperature: 5 to 25°C, humidity: 75% RH Max). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.

environment with high temperature, high humidity, dust, corrosive gas and care to avoid damage or contamination from perspiration and skin oils. Please handle the product carefully to prevent any damage caused by dressing, dust, or skin oils. Please remove the protective tape by using a sharp knife or a sharp blade.

- Product should not be exposed to 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 with care to avoid damage or contamination from perspiration and skin oils.

Operation Instructions:

- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.

temperature does not exceed 150°C. The maximum temperature should be noted. The temperature difference between the solder temperature and chip temperature should be noted.

conditions determined in the specification. Soldering corrections after mounting should be within the range of the specification. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.

General note: Koher group is not familiar with the customer's specific application or actual requirements as customer is responsible for checking and confirming whether Koher product with the customer's application. As a result customer shall be responsible for the performance of the product. Koher group is not responsible for the performance of the product.