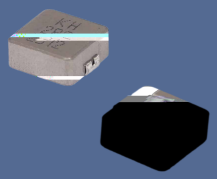
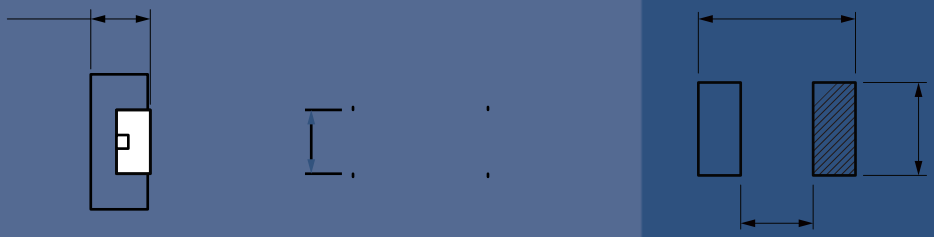


FEATURES

- Shielded construc on
- Capable of corresponding high frequency .
- Low loss realized with low DCR.
- High performance (Isat) realized by metal dust core.
- Ultra low buzz noise, due to composite construc on.
- 100% Lead(Pb)-Free and RoHS compliant.
- AEC-Q200 qualified
- Opera ng temperature: -55 to +155 °C(including self-temperature rise)
- Quan ty: 500PCS

APPLICATION

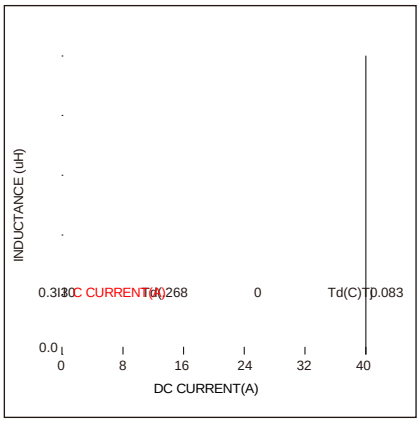
- Noise filter for various drive circuitry requiring high temp. opera on and peak current handing capability.
- Boost-Converter
- Buck-Converter DC/DC



MDSA1050-1R0M	1.00	±20%	24.0	32.0	2.80	3.2	2.5±0.3
MDSA1050-1R5M	1.50	±20%	22.0	26.0	3.60	4.0	2.5±0.3
MDSA1050-2R2M	2.20	±20%	19.0	19.5	5.40	6.0	3.0±0.3
MDSA1050-3R3M	3.30	±20%	16.5	17.0	8.40	9.5	3.0±0.3
MDSA1050-4R7M	4.70	±20%	14.5	15.5	9.70	10.9	3.0±0.3
MDSA1050-5R6M	5.60	±20%	12.5	14.5	13.0	14.8	3.0±0.3
MDSA1050-6R8M	6.80	±20%	11.6	13.5	15.5	17.8	3.0±0.3
MDSA1050-8R2M	8.20	±20%	9.6	13.0	16.5	19.3	3.0±0.3
MDSA1050-100M	10.0	±20%	7.2	12.5	19.5	22.4	3.0±0.3
MDSA1050-150M	15.0	±20%	6.2	8.1	33.0	40.0	3.0±0.3
MDSA1050-220M	22.0	±20%	5.7	5.7	45.0	55.0	3.0±0.3
MDSA1050-330M	33.0	±20%	5.2	5.5	75.0	88.0	3.0±0.3
MDSA1050-470M	47.0	±20%	4.2	3.8	108.0	130.0	3.0±0.3

Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

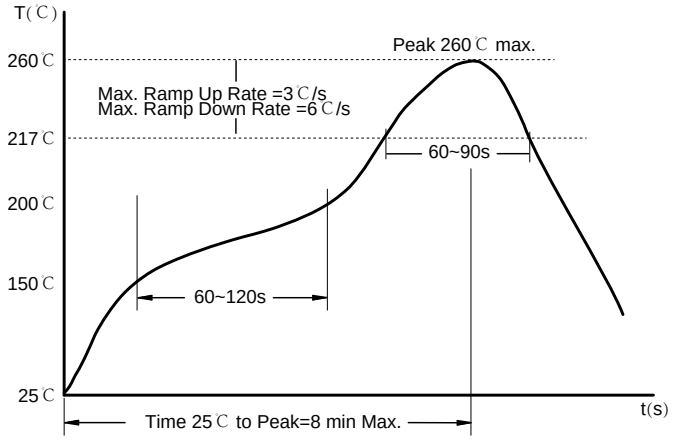
Typical Electrical Characteristics:



0.3I30DC CURRENT(A)Td(.268 0 Td(C)Td.083 3.9360 Td(.55 0.494 s03 - 611.668 cm0 0 m0 0

KOHER Electronic
4546 BATES DRIVE, YORBLINDA CA 92886 USA
714-325-4789 Contact@kohergroup.com

Soldering Reflow:



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

Allowed time above 217℃: 60~90 sec.

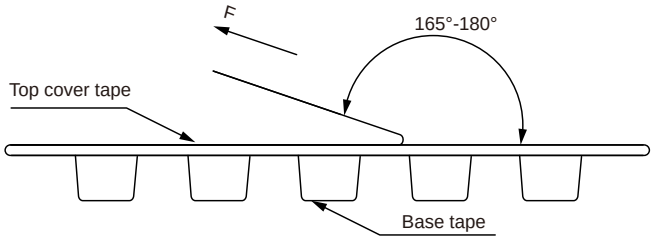
Max temperature: 260℃.

Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension:

Peel force of top cover tape:

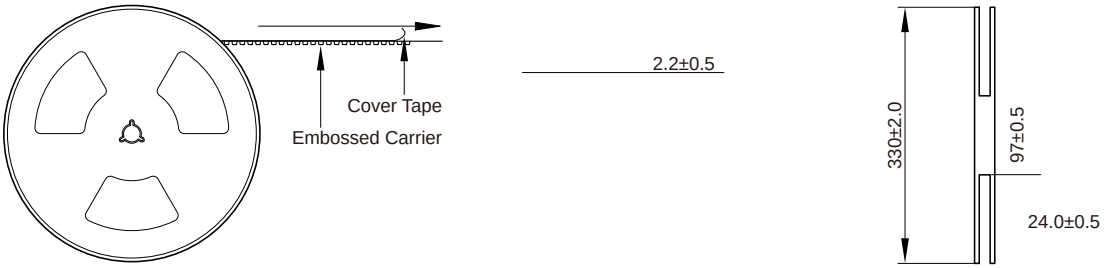


The peel force of top cover tape shall be between 0.1 to 1.3 N

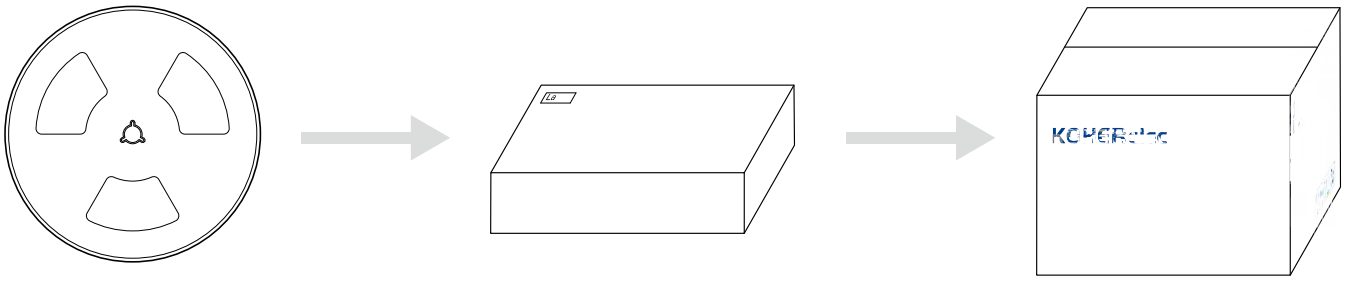
Product Marking:

Marking	KH+Printing (Inductance)

Reel Dimension：[mm]



Packaging Quantity:



500 Pcs/Reel

2 Reel /Inner box(1000 Pcs)

3 Inner box/Carton box(3K 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.