DMMA Series Molded Inductor Size 7078



Dimensions: [mm]

FEATURES

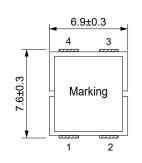
- Low loss realized with low DCR.
- High performance realized by metal dust core.
- Ultra low buzz noise, due to composite construction.
- 100% Lead(Pb)-Free and RoHS compliant.
- AEC-Q200 qualified
- Operating temperature: -55 to +125 °C (including self-temperature rise)

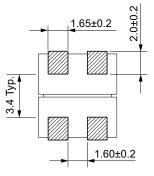
KOHERelec

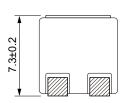
Quantity: 600PCS

APPLICATION

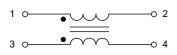
Automotive applications



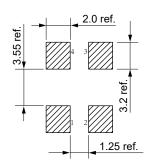




Schematic:



Land Pattern: [mm]



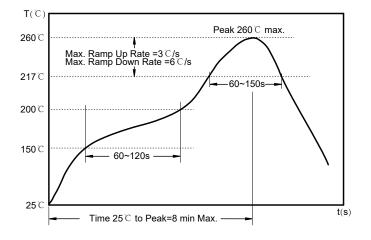
Electrical Properties:

Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Saturation Current Typ. (A)	Saturation Current Max. (A)	DC Resistance Max. (mΩ)
DMMA7078-1R0M	1.0	±20%	9.8	8.8	19.3	16.5	6.5
DMMA7078-3R3M	3.3	±20%	5.7	5.1	13.0	11.1	19.2
DMMA7078-100M	10.0	±20%	3.5	3.2	6.8	5.8	49.0
DMMA7078-150M	15.0	±20%	2.7	2.4	6.0	5.1	90.0
DMMA7078-220M	22.0	±20%	2.2	2.0	4.3	3.7	134

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



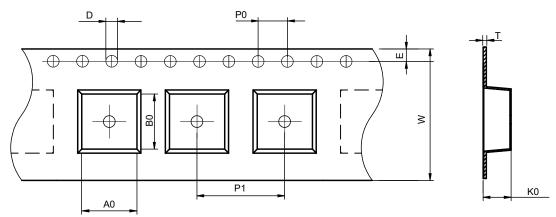
Soldering Reflow:



Preheat condition: $150 \sim 200$ °C / $60 \sim 120$ sec. Allowed time above 217 °C : $60 \sim 150$ sec. Max temperature: 260 °C . Allowed Reflow time: 2x max.

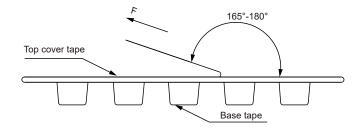
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
DMMA7078	9.0±0.1	8.3±0.1	1.50 ± 0.1	4.0±0.1	12.0±0.1	16.0±0.3	7.8±0.1	1.75±0.1	0.5 typ

Peel force of top cover tape:



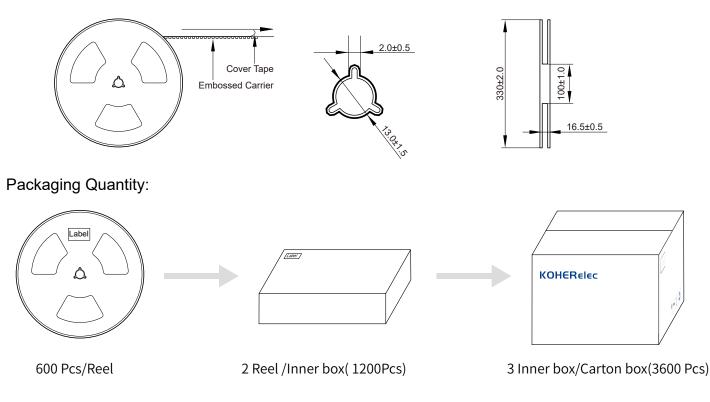
The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:



KOHERelec

Reel Dimension: [mm]



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.