



# DMMA Series

## Molded Inductor

### Size 7078



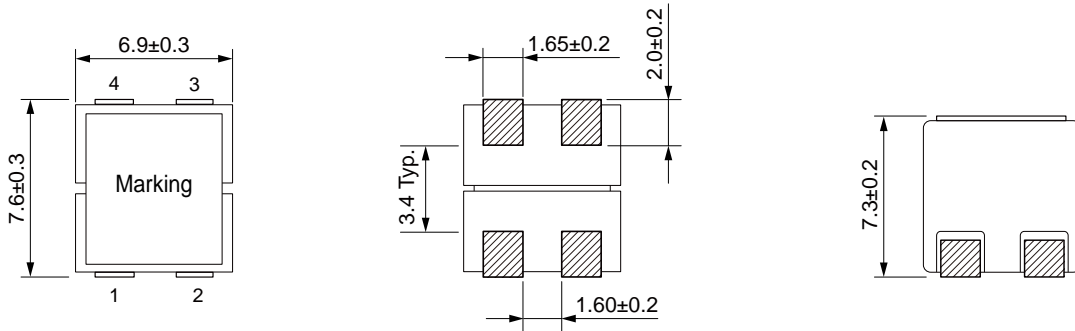
#### FEATURES

- 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)
- Quantity: 600PCS

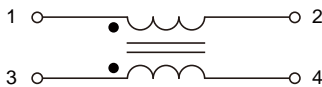
#### APPLICATION

- Automotive applications

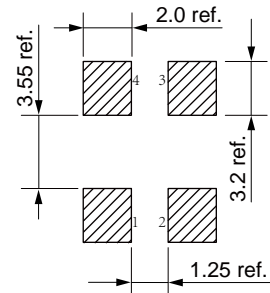
#### Dimensions: [mm]



#### Schematic:



#### Land Pattern: [mm]



#### Electrical Properties:

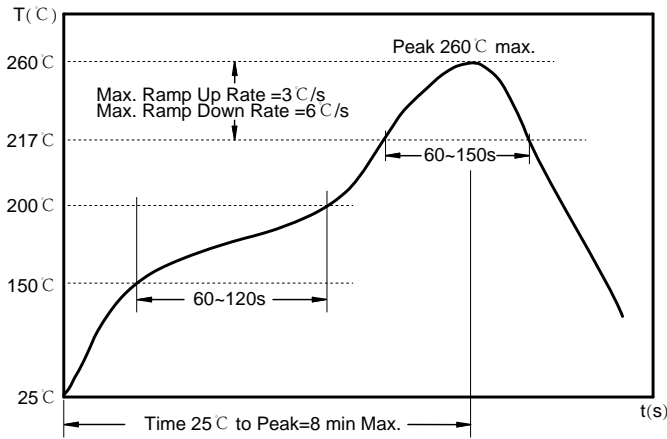
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Saturation Current Typ. (A)	Saturation Current Max. (A)	DC Resistance Max. (mΩ)
DMMA7078-1R0M	1.0	±20%	9.8	8.8	19.3	16.5	6.5
DMMA7078-3R3M	3.3	±20%	5.7	5.1	13.0	11.1	19.2
DMMA7078-100M	10.0	±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  $\Delta T=40^{\circ}\text{C}$



## Soldering Reflow:



Preheat condition: 150 ~200 °C / 60~120 sec.

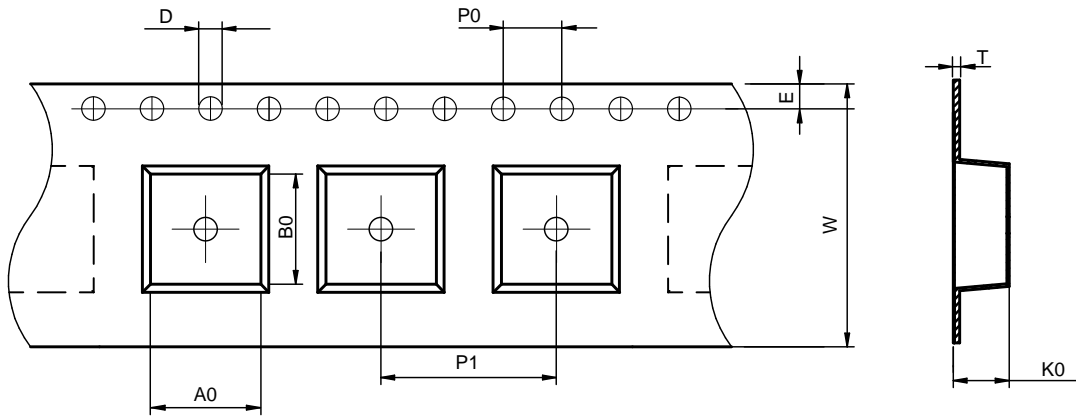
Allowed time above 217 °C: 60~150 sec.

Max temperature: 260 °C.

Allowed Reflow time: 2x max.

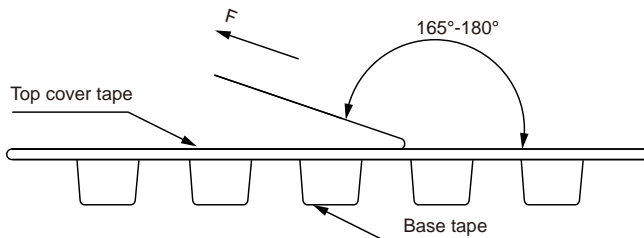
## Packaging Information:

### 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:

Marking	Printing (Inductance+period)
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Reel Dimension: [mm]



Packaging Quantity: