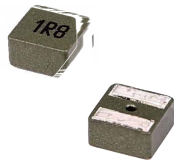
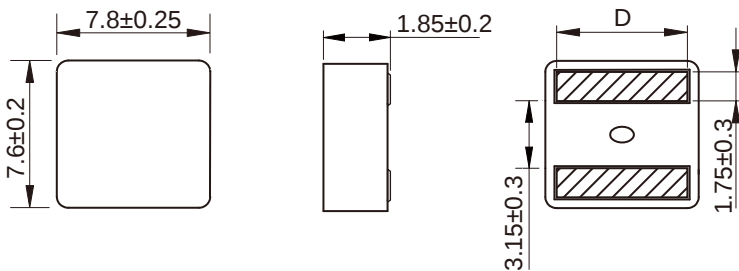


Flat Wire Molded Inductor  
 Size 7020

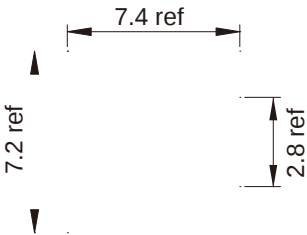


- Composite core material allows high saturation currents
  - Very low acoustic noise and very low leakage flux noise
  - High inductance capability and handles high transient currents
  - C-Q200 qualified
  - Operating temperature -55 to +155 °C (Including self - temperature rise)
  - Quantity: 2000pcs
- DC/DC converters for entertainment/navigation systems
  - Applications: windshield power mirrors / heating and ventilation blowers / HID lighting
  - LED driver

Dimensions: [mm]



Land Pattern: [mm]



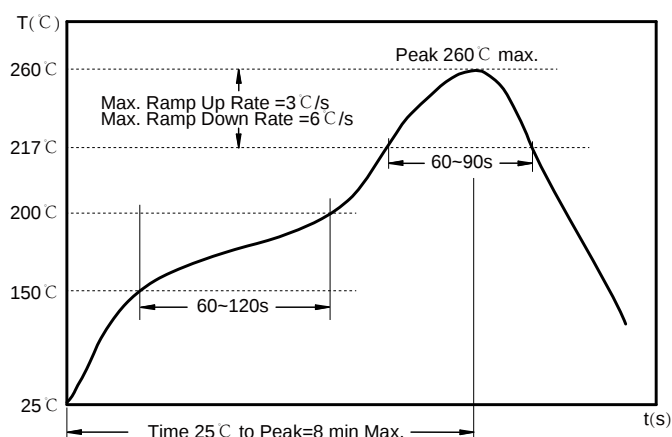
Electrical Properties:

| Part Number | Inductance (mH) | Saturation Current (A) | Temperature Rise (°C) | DC Resistance (mΩ) |       | AC Resistance (mΩ) | Q Factor |
|-------------|-----------------|------------------------|-----------------------|--------------------|-------|--------------------|----------|
|             |                 |                        |                       | 25°C               | 100°C |                    |          |
| 1R8         | 1.8             | 1.8                    | 1.8                   | 1.8                | 1.8   | 1.8                | 1.8      |
| 1R8         | 1.8             | 1.8                    | 1.8                   | 1.8                | 1.8   | 1.8                | 1.8      |
| 1R8         | 1.8             | 1.8                    | 1.8                   | 1.8                | 1.8   | 1.8                | 1.8      |
| 1R8         | 1.8             | 1.8                    | 1.8                   | 1.8                | 1.8   | 1.8                | 1.8      |
| 1R8         | 1.8             | 1.8                    | 1.8                   | 1.8                | 1.8   | 1.8                | 1.8      |
| 1R8         | 1.8             | 1.8                    | 1.8                   | 1.8                | 1.8   | 1.8                | 1.8      |

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current that causes the specified temperature rise from 25°C ambient.

## Soldering Reflow:



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

Allowed time above 217 °C : 60~90 sec.

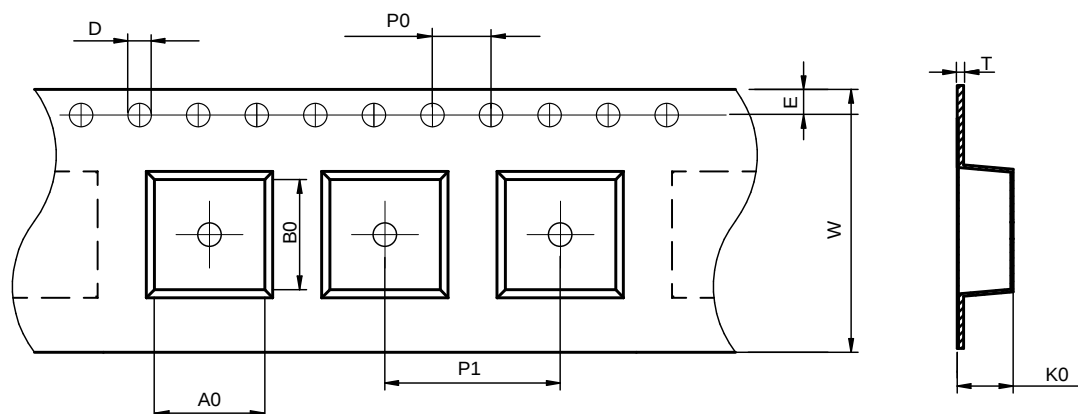
Max temperature: 260 °C .

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

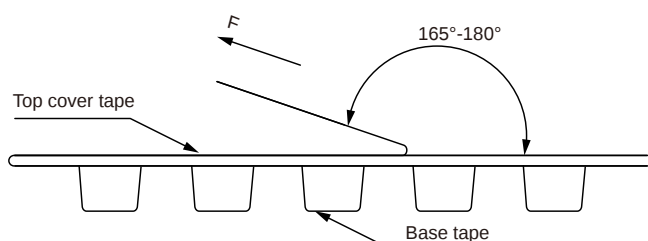
## Packaging Information:

### Tape Dimension :



| Series   | A0<br>(mm) | B0<br>(mm) | D<br>(mm) | P0<br>(mm) | P1<br>(mm) | W<br>(mm) | K0<br>(mm) | E<br>(mm) | T<br>(mm) |
|----------|------------|------------|-----------|------------|------------|-----------|------------|-----------|-----------|
| MDTA7020 | 8.2±0.1    | 8.0±0.1    | 1.5±0.1   | 4.0±0.1    | 12.0±0.1   | 16.0±0.3  | 2.3±0.1    | 1.75±0.1  | 0.35±0.05 |

### Peel force of top cover tape:

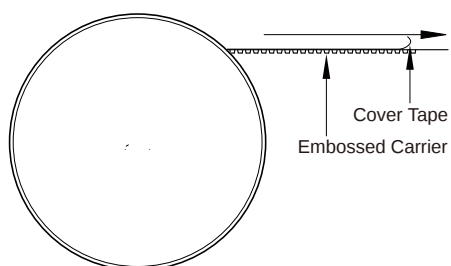


The peel force of top cover tape shall be between 0.1 to 1.3 N

### Product Marking:

| Marking | Printing (Inductance) |
|---------|-----------------------|
|---------|-----------------------|

Reel Dimension: [mm]



\_\_\_\_\_

Packaging Quantity: