

# MDTA Series

## Flat Wire Molded Inductor

### Size 6050



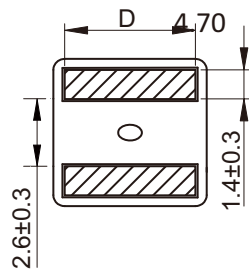
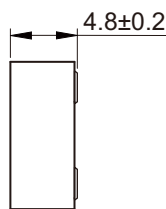
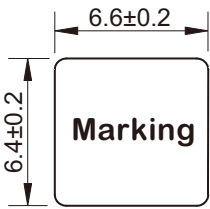
#### FEATURES

- Flat wire coil for low copper losses
- Composite core material allows high saturation currents
- Very low acoustic noise and very low leakage flux noise
- High current capability and handles high transient current spikes
- AEC-Q200 qualified
- Operating temperature -55 to +155 °C (Including self - temperature rise)
- Quantity: 800pcs

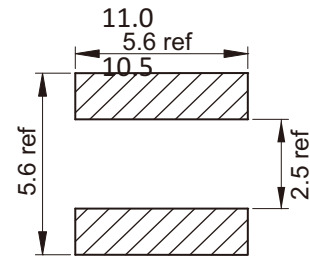
#### APPLICATION

- DC/DC converters for entertainment/navigation systems
- Noise suppression for motors: windshield wipers / power seats/ power mirrors / heating and ventilation blowers / HID lighting
- LED drivers

Dimensions: [mm]



Land Pattern: [mm]



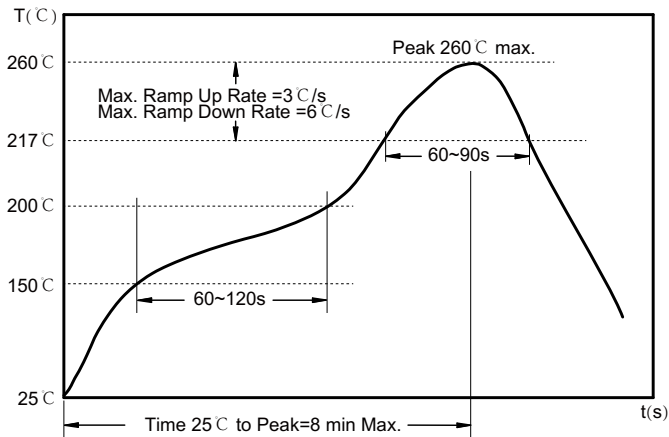
Electrical Properties:

Inductance (mH)	DC Resistance (mΩ)	DC Current (A)
16.0	4.18	5.3±0.3
15.0	4.52	5.3±0.3
14.0	5.83	5.3±0.3
13.0	6.30	5.3±0.3
12.0	7.10	5.3±0.3
10.0	8.50	5.2±0.3
8.5	12.5	5.2±0.3
7.0	16.2	5.2±0.3
6.5	18.4	5.2±0.3

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.

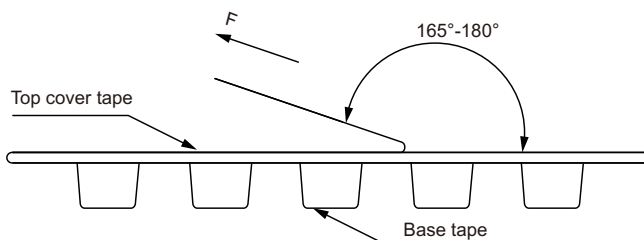
Allowed Reflow time: 2x max.

## Packaging Information:

### Tape Dimension :

Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDTA6050	7.0±0.1	6.8±0.1	1.5±0.1	4.0±0.1	12.0±0.1	16.0±0.3	5.3±0.1	1.75±0.1	0.40±0.05

### Peel force of top cover tape:

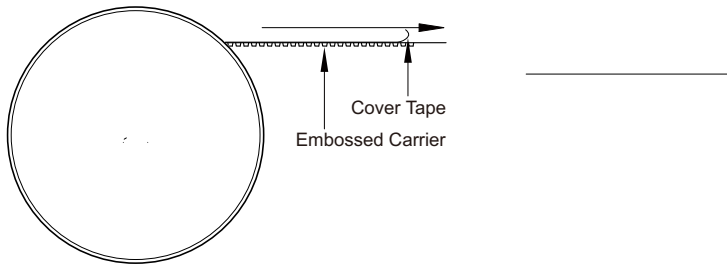


The peel force of top cover tape shall be between 0.1 to 1.3 N

### Product Marking:

Marking	Printing (Inductance)
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Reel Dimension: [mm]



Packaging Quantity: